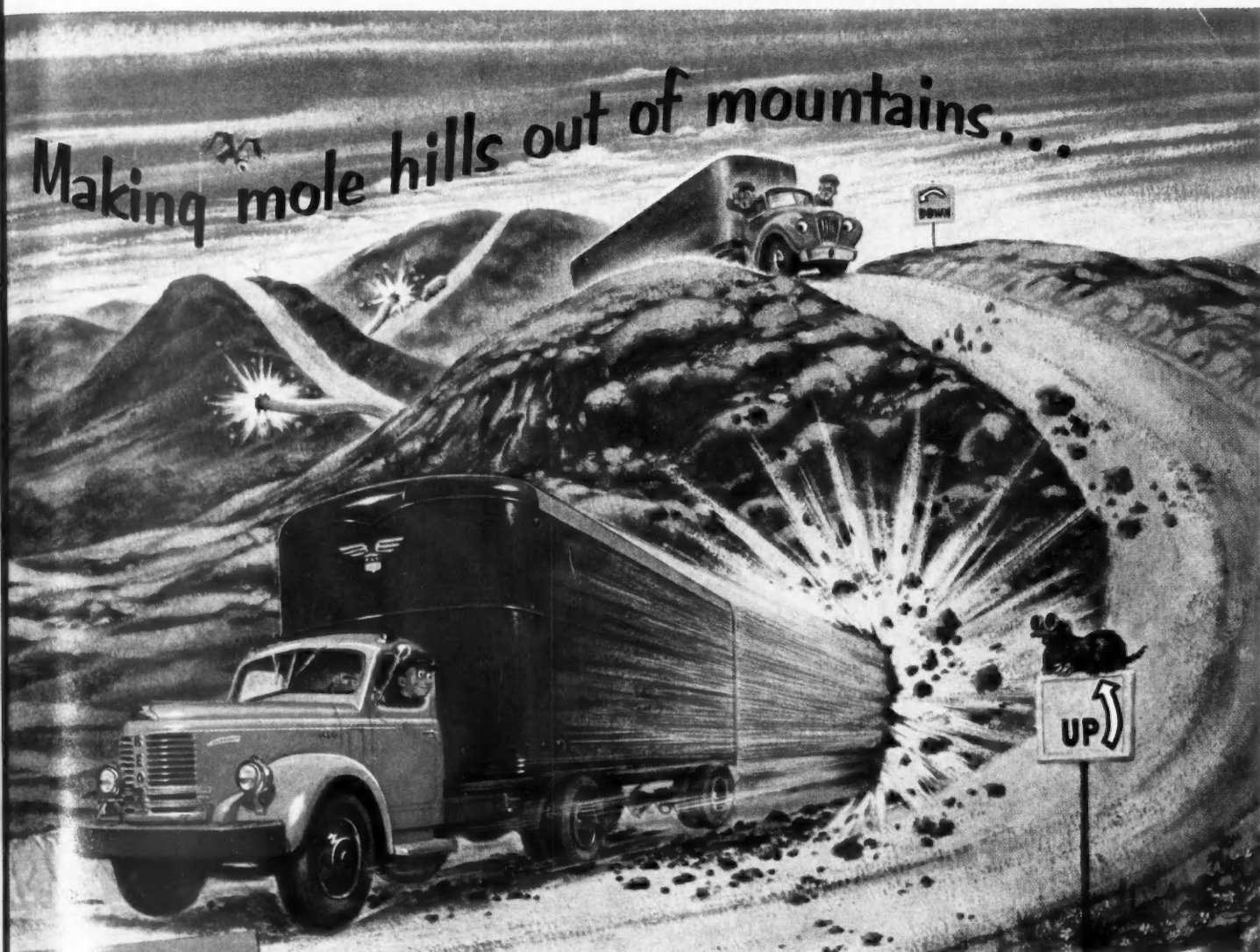


ccj COMMERCIAL CAR JOURNAL

THE MAGAZINE FOR FLEET OPERATORS

Making mole hills out of mountains...

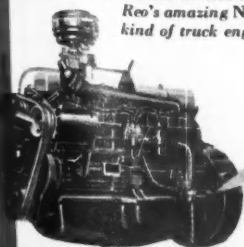


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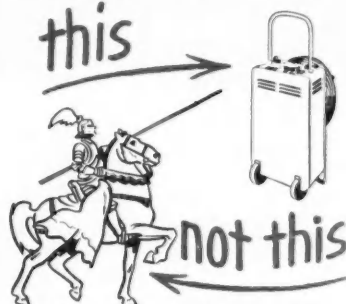
Above all, your Dodge truck will have the stand-up stamina and dependability needed to assure trustworthy service on your job . . . for years and years.

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For batteries, you need
the right kind of charger.

this



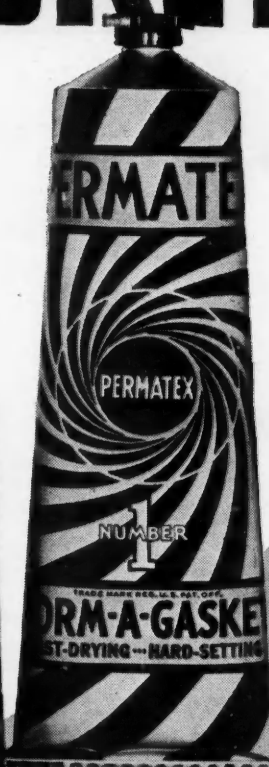
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for Fleet Operators

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COMMERCIAL CAR JOURNAL

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JOURNAL

CCJ

READER DIGEST

Your Buyers' Directory

The third annual Buyers' Directory reaches your desk. We hope—we think—it will be kept within your reach throughout the year. We have strived to make it a "must" with all fleets—providing complete information on sources of materials, parts, supplies, components and vehicles. Use it. But if you require additional information or assistance in locating manufacturers or addresses, CCJ editors will be glad to help you.

Don't miss the Association Directory which begins on page 83. These organizations can be helpful to you.

National Safety Congress Meeting

The National Safety Congress, meeting in Chicago, Oct. 9-12, outlined some important steps in controlling highway accidents through improvement of driver-employee relations, safety meetings, improved supervision and training programs. A CCJ correspondent provides a brief review of the meeting, page 14.

Federal Announces 3400 Series

New Federal models in GVW ratings from 23,000 to 25,000 lb and powered with the Power Chief 371 cu in. engine are now in production. A complete description of chassis and engine is outlined on page 60.

SAE Panel Discusses Highway Legislation

The Society of Automotive Engineers, meeting in Chicago in October, devoted an afternoon to two speakers who brought the industry up to date with regard to highway legislation and planning. Arthur Butler, of National Highway Users Conference and John Hulse, of TTMA both had some interesting and practical suggestions for improving highway transportation. What they said about the AASHO code, legislation based in fixed weight limits, the highway building program and the Uniform Vehicle Code is briefed for your convenience and information, page 10.

Harvester Proving Ground

International Harvester has officially opened a new proving ground in Phoenix, Arizona, for the testing of new models as well as those picked at random from the production line. Featuring a 6½ acre tract with a 28-ft paved track 7¼ miles in length, this rugged testing center will provide ideal opportunities for ironing out any existing "bugs" and insuring the owner of dependable vehicles. Details of construction of the project are outlined on page 41.



LET'S TALK TURKEY! SAND-BANUM SPECIAL

(CONCENTRATED TABLETS)

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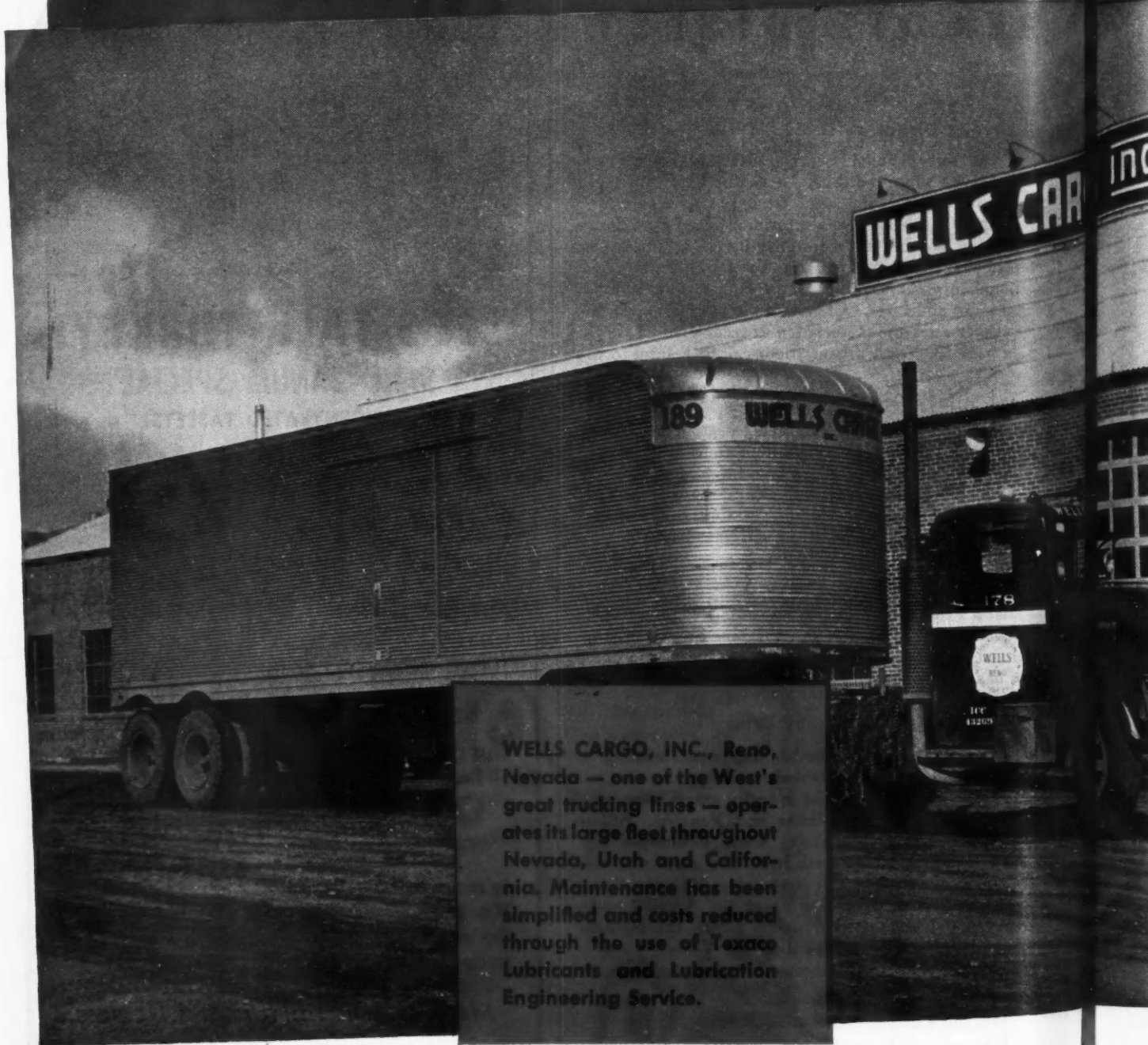
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Wells Cargo tells how **TEXACO MARFAK**



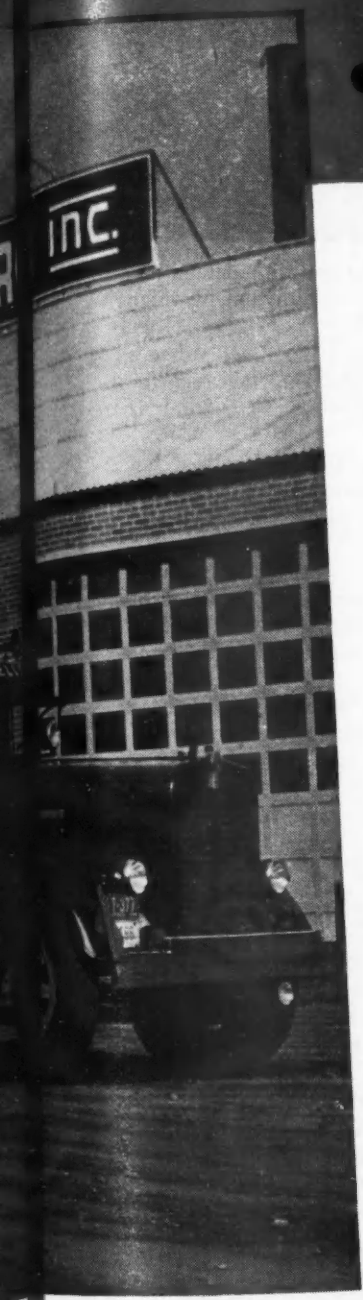
WELLS CARGO, INC., Reno, Nevada — one of the West's great trucking lines — operates its large fleet throughout Nevada, Utah and California. Maintenance has been simplified and costs reduced through the use of Texaco Lubricants and Lubrication Engineering Service.

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every Tuesday night.
See newspaper for
time and station.



TEXACO

KEEPS TRUCKS ROLLING ...REDUCES COSTS



To anyone traveling the highways of Nevada, Utah and California, Wells Cargo trucks are familiar sights. Routes covered by these trim giants include the famous Donner Pass, one of the most difficult stretches of highway for trucks in northern California. And here's what Wells Cargo says about maintaining the mechanical efficiency of its great fleet —

"Five years ago we changed to *Texaco Marfak* for chassis lubrication and *Texaco Marfak Heavy Duty* for wheel bearings. Since then our trucks have spent a good deal less time in the shop, and we have spent a good deal less money for maintenance. We find that *Marfak* doesn't jar or squeeze out of bearings, gives us greater mileage between lubrications. Chassis parts are well protected against wear and rust. We have far fewer replacements.

"As for wheel bearings, we haven't had a failure due to faulty lubrication since we started using *Texaco Marfak Heavy Duty*. It really stays in the bearings and doesn't leak onto the brakes — an important safety factor. We also like the fact that it requires no seasonal change."

Wells Cargo's experience with *Texaco Marfak* is typical. Operators everywhere find this tough, longer lasting lubricant a vital factor in keeping their trucks on the road and their maintenance costs low. No wonder that —

**MORE THAN 400 MILLION POUNDS OF
TEXACO MARFAK HAVE BEEN SOLD!**

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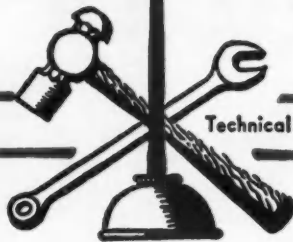
Lubricants and Fuels

FOR THE TRUCKING INDUSTRY

At Your Service

By M. K. SIMKINS

Technical Editor, Commercial Car Journal



Be Sure Tire Chains Are Balanced

Few fleetmen are satisfied with their tire chain mileage—yet most operators can improve chain life with a few simple precautions in their installation and use. One of the greatest causes of premature wear is an out of balance condition caused by improper spacing of the cross links. Out of balance conditions result in the centrifugal force throwing the heavy portion away from the tread of the tire so that it strikes the pavement with great force. Close spacing of the cross chains resulting from use of chains that are too long for the wheel throw the wheel out of balance, as does use of a chain that is too short. Where cross chains are not equally spaced, it will pay you to remove a link or two or add an extra cross chain to even up the spacing.

Another cause of this out of balance is the permitting of extra free links on the side chain. Twisted cross chains or side chains may contribute to the same condition.

It is of course well known that operating on hard surfaces and under fast speeds with chains produces early wear. All too often the driver is tempted to use them longer than is necessary rather than take them off on the road. In the interest of economy the time spent in removing them at the first opportunity (after the snow or ice or mud has been negotiated) will pay off in fewer replacements and chain repairs.

Check Up on Those Water Distributing Tubes

Many cases of valve burning and piston scoring can be traced directly to improper coolant circulation caused by restrictions in the distribution tube. Electrolytic corrosion often eats holes into the tube—or clogs the regular openings so that the coolant does not circulate adequately throughout the block. Resultant hot spots around the cylinders or at the valve seats soon cause parts failures.

No practical PM schedule can be set up for this service, due to the variation in scaling and corrosion. Many factors such as the condition of the water used, the engine operating temperature, the presence of air in the system and the cooling system cleaning procedures affect the rate of disintegration of this tube. However, whenever an engine is down or whenever assemblies are removed so that the tube is accessible, it should be checked. No ring job, for example, is complete without a cleaning of the cooling system and inspection for the presence of scale and rust in the water passages.

Check List for Engine Detonation

If you are experiencing problems with detonation, check up on the following conditions, any one of which may be responsible:

1. Use of fuel with low octane rating. In this case a spark adjustment to the fuel used may correct the trouble. Always re-tune an engine when a switch is made to a new gasoline.
2. Overheating of the engine due to localized hot spots in the water jacket, to restricted circulation due to clogged radiator, improperly operating thermostat or stuck heat riser valve.
3. Accumulation of carbon in combustion chamber causing a higher combustion ratio due to reduction of chamber volume. This also insulates the surrounding combustion chamber and restricts the dissipation of heat to the coolant.
4. Use of too hot type spark plugs, in which case the electrodes overheat and produce preignition.
5. Improperly seating valves which overheat as a result.
6. Improper air-fuel ratio. This may be a result of improper carburetor adjustment, use of too lean jets, air leaks at the intake manifold.

Clean Air Cuts Wear

It has been stated that engines would last almost indefinitely if they were sealed from the dust and abrasives in the air. However, they must consume air in the normal process of combustion. Air cleaners, filters, strainers have been used by manufacturers in an effort to provide for the cleanest air possible to the combustion chamber and crankcase. They are not 100 per cent efficient (the best of them), but, when serviced periodically, do keep out much of the abrasives in the air.

Just figure the chances of accumulating dirt when you consider a 260 cu in. engine operating at 2000 rpm. In an hour's time that engine "breathes" in 7,800,000 cu in. of air, and in a normal day's time it will use up approximately 40,000 cu ft. If that were water, it would fill four pretty good size swimming pools.

Three factors should guide the fleetman in his war on such abrasives:

1. Buy only the best types of air cleaners and filters.
2. Be sure that they are installed properly.
3. Insist upon service and cleaning consistent with the operating conditions.

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or The Electric Auto-Lite Co., Merchandising Division, Toledo 1, Ohio, for full information on how to enroll your fleet in the 1951-52 contest.

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SAE Panel Discusses

Effects of Highway Laws

Two speakers outline the path to improved highway transport through better financing better road building, progressive legislation

ONE highlight of the SAE Transportation Meeting in Chicago in October featured a panel covering the subject of highways and legislation, led by John B. Hulse, of TTMA, and Arthur Butler, of the National Highway Users Conference. The speakers, dividing the subject between the impact of size and weight restrictions and the impact of legal developments on highway transportation, produced some recommendations that may well be considered in the future planning of transportation agencies and legislators in the interest of improved highway transport.

Mr. Hulse reviewed some of the assets and shortcomings of the AASHO code, showing how present formulas are not sound, how this code has not accomplished the objective of protecting bridges and inferior highways, how the system of weight regulation is not easily understood in the industry and how as a result regulations are difficult to enforce.

In reviewing some of the follies of the AASHO code, Mr. Hulse showed how the vehicle designed to conform to the bridge formula is unstable on the highway due to poor load distribution, illogical axle spacing and off-tracking conditions. Costs tallied up in engineering vehicles to meet the varying requirements of individual states result in unsound economic practices. Added to this, he said, is the fact that vehicles tailored to one set of state laws cannot always be operated in another.

Mr. Hulse cited an example of conflicting state laws that is presently reducing net loads to the point of economic ruin from the standpoint of the fleet operator. In setting up specifications of a trailer unit that could leg-

ally operate between Chicago and Philadelphia, he showed five sets of conflicting state regulations as to weight, length, height, axle spacing, etc., through the states of Illinois, Indiana, Ohio, Pennsylvania and West Virginia. The following tables show what the operator must sacrifice on this.

"The overall picture becomes startling," reports Mr. Hulse. "Here we have a route running approximately straight through five connecting states, and the operator must sacrifice payload in each state, the severity varying with the state. Consider, from the operator's viewpoint, that this run is made every two or three days, every month and over a period of a year's time, and one can readily visualize the payload sacrifice that the operator has suffered."

	Illinois	Indiana	Ohio	Pennsylvania	West Virginia
Unit Length.....	42'	38'	35'	35'	35'
Unit Height (Nominal).....	13'-6"	12'-6"	12'-6"	12'-6"	12'-6"
Unit Width.....	96"	96"	96"	96"	96"
Overall Length of Combination.....	45'	50'	45'	45'	45'
Maximum Gross Weight on Any One Axle	18,000	18,000	19,000	20,000	18,000
Maximum Gross Weight on Two Axles in Tandem.....	32,000	32,000	31,500	36,000	32,000 per table
Gross Weight of Combination Tandem Axle Trailer and Single Axle Tractor..	59,000	68,000	Bridge Formula 78,000# Maximum	60,000**	60,800

Here are each state requirements for a combination consisting of a tandem axle trailer pulled by a single axle tractor

Name of State	State Gross Limit	5-State Combination Gross Limit	Payload Sacrifice in Each State
Illinois.....	59,000 pounds	56,500 pounds	500 pounds
Indiana.....	59,000 pounds	"	500 pounds
Ohio.....	59,500 pounds	"	1,000 pounds
West Virginia.....	59,000 pounds	"	500 pounds
Pennsylvania.....	60,000 pounds**	"	1,500 pounds

** Pending law. Present law does not recognize tandems and limits gross weight at 45,000 lb.

Assuming that the operator could not adjust his load enroute, here is what he would sacrifice in payload in each state

Fixed limits have some advantages, Mr. Hulse continued, and summed up his reasoning in this way:

1. They do not lead to engineering monstrosities in commercial vehicles.
2. They are more easily understood—and enforced.
3. They promote vehicle designs based on transportation needs, not on legal quirks.

4. Fixed loads can protect our pavements and structures while at the same time allow highway transportation to make its maximum contribution to our national economy.

In a paper entitled "The Highway User Faces the Law," Arthur Butler criticized some of our present aspects of legislation and highway construction. "It is ironical," he said, that there are so many critical deficiencies in our highway systems today which would not exist if the hundreds of millions of dollars of motor vehicle revenues spent for unemployment relief and other purposes had been devoted to improving the roads to meet traffic needs in normal times, and our defense needs in emergencies like we have today."

(TURN TO PAGE 306, PLEASE)

Fleets

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Safety Congress Outlines Driver's Role in Accident Prevention

James K. Knudson key-notes Chicago meeting, expressing the need for continued work in highway safety. Others outline steps to improved transport

By Randall Howard

CCJ Correspondent

V AT THE 39th National Safety Congress, meeting in Chicago, Oct. 9 to 12, commercial vehicle and transit representatives reviewed the driver's role in improving highway safety records. While placing emphasis on good drivers and good driving techniques, a battery of speakers taking the roster during the week outlined various methods of improving driver morale, of improving competence and of establishing better employee relations.

Opening the Tuesday morning meeting, a paper prepared by Administrator James K. Knudson, Defense Transport Administrator, on "Man Power and Transportation," emphasized the growing national seriousness of motor vehicle accidents, stating that such deaths involving common and contract carriers had been increasing steadily from 3.67 per cent of all reported accidents in 1940, up to 5 per cent in 1950. He also made specific charges against fleet drivers.

"During these years," he said, "the power and speed of motor vehicles, the weight transported and the distances covered have all increased. But the driver remains essentially the same type of man—though experience has demonstrated that the driver's competence, alertness, judgment and attitude are prime factors in preventing accidents. . . .

"Whether a man should be entrusted with the responsible job of piloting a heavy and powerful vehicle on the highway," Knudson continued, "depends largely upon what kind of man he is, and his regard for his own safety and that of others, more than upon his good physical condition."

This specific driver charge by Administrator Knudson, as related to what

the nation's motor vehicle operators possibly could do about it, was given a partial answer in a later discussion.

A. H. Polk, director of safety & personnel, Great Lakes Greyhound Lines, Detroit, stated that "chief responsibility in safety training for drivers and shop employees is not the job of the safety department," but the direct responsibility of the company supervisors. It is the business of the safety department, he said, to gather accident statistics that will demonstrate the company's "operations hazards." The safety department then must work with management to develop precise safety policies and operations methods that can overcome these demonstrated accident hazards.

When such policies and methods have been devised, they must be made known to the various supervisors who are in direct contact with the individual drivers and shop workers. Thus, in the words of the speaker, "safety training should be considered chiefly a means of communication between top company management and the employees; and there is no substitute for such communication."

The second feature of this session was a rather remarkable audience demonstration carried through by J. Donald Phillips of Hillsdale College, Hillsdale, Mich. He distributed blank cards, with the plan to divide the entire large audience into separate communication groups of only five persons each. Each group then was coached to exchange names, and to record, on each individual card, its own quickly assembled group accumulation of ideas on a general audience topic. In this way he demonstrated that such a type of employee safety meeting easily could be

planned, which definitely could create interest among and develop intelligent responses from the members of any company driver or shop group.

In the final session Walter F. Mul-lady, President of Decatur Cartage Co., Chicago, and First Vice-President of American Trucking Associations, Inc., spoke on the topic, "Good Public Relations Demand Accident Prevention."

"Without improving accident control the industry would have no public relations worth mentioning," he said and then defended the trucking industry by stating that a breakdown of accidents by the National Safety Council indicated that in 1948, of all vehicles involved in accidents, only 17 per cent were trucks; and by 1950, this had dropped to only 14 per cent.

In another address Harry W. Arnold, president of Ohio Rapid Transit Co., Columbus, Ohio, declared that, "in our business, safety is one of the very essential ingredients for success. . . . It is a reflection of our efficiency. It is a measure of productivity—the poorer the record, the lower the productivity."

Following these two talks came the presentation of awards in the 1950-1951 National Fleet Safety Contest. A total of 1345 different individual fleet contestants had completed the contest. Seventy-two of these contestants had completed the contest year without an accident. All the fleets had operated a total of 2,160,399,000 miles; and the total of 48,729 accidents, gave them an average rate for the year of 2.26.

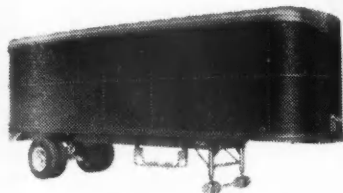
For the Commercial Vehicle Section of the National Safety Council, the following new officers were elected for the 1951-52 annual period:

General chairman, C. D. Calkins, Pacific Motor Trucking, Co., San Francisco, Calif.; Vice-chairman, M. R. Jensen, Consolidated Freightways, Inc., Portland, Oregon; Program chairman, W. T. Gowns, Pilot Freight Carriers, Inc., Winston-Salem, N. C.; Secretary, F. J. Wirken, Interstate Bakeries Corp., Kansas City, Mo.; N.S.C. Staff Representative, Paul H. Coburn.

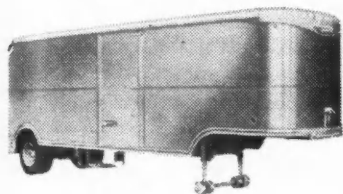
For the Transit Section, these officers were elected: General chairman, M. G. Bullock, Transit Casualty Co., St. Louis; Vice-Chairman, C. Dobell, British Columbia Electric Railway Co.
(TURN TO PAGE 312, PLEASE)

TRAILMOBILE BUILDS A FULL LINE

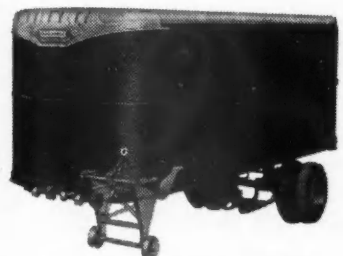
—Has the Right Trailer for the Job



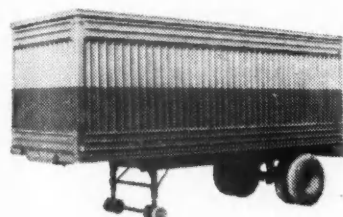
All Steel Dry Freight Van



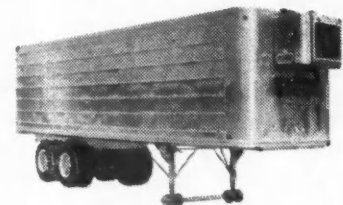
Drop Frame Van



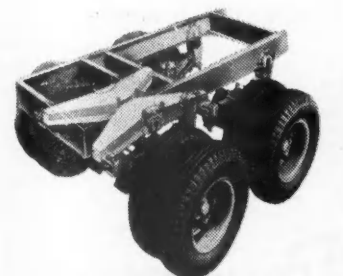
Complete Automatic Coupler Van



Corrugated City Delivery Van



Aluminum Refrigerator Van

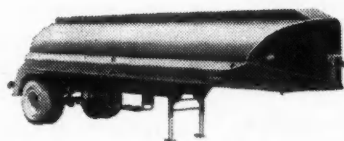


Trailmobile Tandem—
Only two Moving Parts

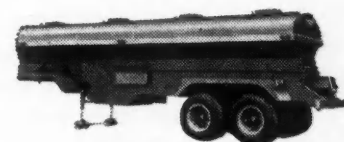
It takes a wide variety and many types of trailer to satisfy the specialized needs of the Trucking Industry.

Trailmobile builds a full line of trailers, designed to earn a profit for the operator—with a minimum of service. Pictured here are a few of the models and types available for prompt delivery.

Without obligation—call the convenient, friendly Trailmobile branch near you for recommendation or assistance on any hauling problem. These men are dedicated to your service.



Tank Trailers for Liquids of All Kinds



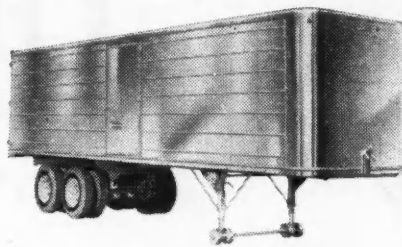
Bulk Cement Trailer



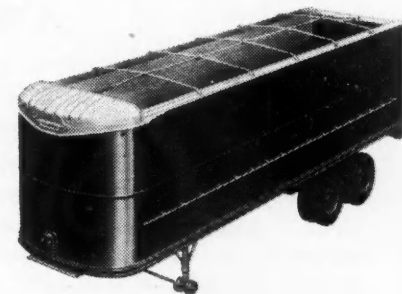
Platform Trailer



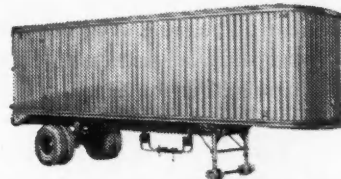
Four-Wheel Platform Trailer



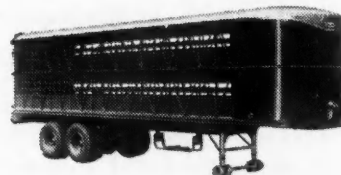
Aluminum Dry Freight Van



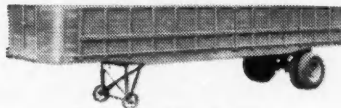
Open Top Van



Corrugated Dry Freight Van



Deluxe Cattle Rack



Lightweight Grain Rack



Drop-Frame Interchangeable
Chassis for Special Body Types



Friendly dependable Service
from Coast to Coast

THE TREND IS TO
TRAILMOBILE

TRAILMOBILE INC.

CINCINNATI 9, OHIO
BERKELEY 2, CALIF.

The OVERLOAD

E D I T O R I A L C O M M E N T

A Short Cut to Industry Efficiency

THIS is a plug for trade associations—about two hundred of them in the field of highway transportation. When we began working on this special directory issue many months ago, we had no intention of slanting our editorial that way. Most assuredly no one asked us to do so. It merely evolved as a natural process.

With materials getting tighter and controls getting tougher, we thought it would be helpful to readers to include, among other directory services, a detailed listing of Washington's defense agencies of interest to transportation men. We had often been helped by the special chart of these agencies which began on page 59 of the March issue and which still stands as a *functional* guide, despite personnel changes.

So we headed for the capital, spent several days working with our Washington Staff, came back with a mass of information. Then we scrapped the whole idea.

Instead we concentrated on the *association* directory which begins on page 83 of this issue, making it as complete and accurate as humanly possible. Here's why.

As we probed among administration officials, the answers to our questions followed a definite pattern. At Defense Transportation Administration (DTA), for instance, we found the agency prefers that most inquiries be directed only to the agency itself. In a few special cases it might be best to go directly to an individual concerned. In still other instances, such as the authorization of a special load permit, the matter should be handled through local facilities. But these, believe it or not are in a state of flux, pending current decisions by the ICC which handles DTA field problems.

As we probed deeper we found almost identical situations, each with a different set of circumstances at National Production Authority (NPA), Office of

Price Stabilization (OPS), Economic Stabilization Agency (ESA) and so on, ad infinitum.

In our travels we learned that many individuals come to Washington every day seeking answers to specific problems. We saw some of them in the aisles going from pillar to post; frequently rebuffed with polite but firm admonitions. With greater and greater clarity we remembered some sound advice often repeated in recent months. Commissioner Knudson among others had said it: "Don't come to Washington in ones and twos, but appoint a spokesman and arm him with the facts." Freely interpreted the advice could also mean: "Get the facts from such a spokesman."

What then should be our advice to truck and bus operators and to most of our manufacturing friends whose existence becomes more complex as each day passes? Answer: *Your trade associations.*

The managers of these groups are paid to know the answers. Most of them have representatives or affiliates in Washington who can get the answers if they do not have them on file. On top of that they represent industry groups having a much more powerful voice than individuals.

But obviously steering members through proper Washington channels or representing them on Capitol hill is only one small part of association activities. Who sponsors most of the national and local advertising campaigns? Who develops sound coordinated public relations activities? Who battles in 48 states for fair and reasonable laws? Who brings men involved with maintenance, equipment and safety together for the profitable interchange of ideas?

By and large the answer to all these questions and many more like them is your trade association, supported by *you* and your friends in the industry.

Bart Rawson
Editor

CCJ REPORTS

on News of the Industry

N. Y. Tax Still Stands Despite Latest High Court Rule

A new ruling that New York state could not enforce collection of the highway use tax, pending a ruling on its constitutionality, has been handed down by State Supreme Court Justice Schirick on Oct. 23, 1951. At the same time, he authorized the Tax Commission to enforce all other sections of the law.

Meanwhile responsibility for keeping the necessary records, securing permits and, technically, payment of the first month's tax on Nov. 20 (for October operations) remains with every truck operator. For a full explanation of the tax and detailed answers to many questions concerning it, readers are reminded of the article which began on page 106 of the August issue.

Truck Body Makers Elect Way at Annual Meeting

The 4th Annual Convention and Suppliers Exhibit of the National Truck Body Manufacturers and Distributors Assn. was held at Atlantic City, N. J., September 24-26, inc. Sentiment of members and exhibitors was that this was an outstanding convention.

Among speakers of the Convention were: Fred L. Siebert, Jr., Chief, Truck Body Division, NPA; John B. Hulse, Managing Director, Truck-Trailer Manufacturers Assn.; Dr. Alfred P. Haake, Ph.D., Economist, General Motors Corp., Park Ridge, Ill.; Robert Cass, Assistant Director, Automotive Division, NPA; John R. Powers, Chairman of the Board, McCabe-Powers Auto Body Co., St. Louis, Mo.; J. J. Larkin, Assistant Fleet Sales Manager, Ford Motor Co., Dearborn, Mich.

Representing the fleet operators' point of view, Ted Drescher, manager of transportation, Borden Farm Products Division, The Borden Co., told the body builders how users could be best served. Included were comments on prevailing body design and maintenance problems. He outlined eight points of consideration in the design, construction and sale of truck bodies that

would help the fleet operator do a better delivery and maintenance job at minimum cost, while realizing longest life and best appearance of his fleet.

Among the business conducted was the election of officers for the coming year. G. W. Way, president, Hughes-Keenan Corp., was elected president to succeed E. E. Miller, president, DeKalb Commercial Body Corp.

G. E. Herr, of Marion Metal Products, was elected vice-president and Fearson S. Meeks, of S. J. Meeks' Son, was re-elected secretary-treasurer.

Convention site for 1952 will be Kansas City, Mo.

New Mack Parts Plant

When Mack Trucks Inc. laid the cornerstone recently for its new Service Parts Division building in Bridgewater Township, N. J., officials made more of the occasion than usual and for good reason. Situated on State Route 29, about two miles east of the Somerville circle, the plant is about 10 air-line miles from the nearest Mack installation in Plainfield. Civil defense officials who were on hand for the event conceded that the new plant was "99 per cent" in conformance with Federal recommendations for the diversification of all new and expanded industry.

Show Developments Announced

The 1952 National Transport Vehicle Show and Fleet Maintenance Exposition will be held at the Columbus Ave. Armory, 62nd St. and Columbus Ave., New York, February 26-28. The program and exhibits of the show are growing in importance, according to announcements made by the show sponsors, the Automotive Transport Trades Council.

Grafton S. Greenleaf, maintenance director of Associated Transport, Inc., has been elected chairman of the show's public relations committee. Mr. Greenleaf has announced that an award will be made to the person performing the most outstanding service on
(TURN TO PAGE 27, PLEASE)

DATES and DOINGS

NOV. 12-15—American Bottlers of Carbonated Beverages Exposition, National Guard Armory, Washington, D. C.
NOV. 15-16—Fleet Supervisor and Management Training Course, University of Tennessee, Knoxville, Tenn., Prof. Wm. Way, Jr., director.
DEC. 2-3—Missouri Bus and Truck Assn. Annual Convention, Hotel Governor, Jefferson City, Mo.
DEC. 5-7—Motor and Equipment Wholesalers Assn. Annual Convention, Stevens Hotel, Chicago, Ill.
1952
JAN. 23-25—American Transit Assn., Region 4 Meeting, Atlanta Biltmore Hotel, Atlanta, Ga.
JAN. 24-26—Motor Truck Assn. of So. California and Truck Owners Assn. of California Joint Convention, Coronado Hotel, Coronado, Calif.

JAN. 27-30—11th Annual Convention, Truck-Trailer Manufacturers' Assn., Hotel Shamrock, Houston, Texas.
JAN. 27-30—National Automobile Dealers Assn. Annual Convention, 34th Street & Park Ave. Armory, New York, N. Y. (Equipment exposition, Grand Central Palace, Jan. 26-29).
JAN. 28-30—American Transit Assn., Region 6 Meeting, Buccaneer Hotel, Galveston, Texas.
FEB. 7-8—National Council of Private Motor Truck Owners Inc., Annual Meeting, Hotel Statler, Washington, D. C.
FEB. 26-28—National Transport Vehicle Show and Fleet Maintenance Exposition, W. 62nd St. & Columbus Ave. Armory, New York, N. Y.
FEB. 28-29—American Transit Assn., Region 1 Meeting, Hotel Statler, Boston, Mass.
FEB. 28-MAR. 2—Pacific Automotive Show, Pan Pacific Auditorium, Los Angeles, California.

Ross Congratulates



THESE 1951 MAINTENANCE AWARD WINNERS

Atlantic Greyhound Corp., Charleston, W. Va.

Boston, Worcester & New York St. Ry. Co.,
Framingham, Mass.

Bristol Traction Co., Bristol, Conn.

Capital Transit Co., Washington, D. C.

Charleston Transit Co., Charleston, W. Va.

Connecticut Co., The, New Haven, Conn.

Delaware Coach Co., Wilmington, Del.

Denver-Boulder Bus Co., Denver, Colo.

Dixie Greyhound Lines, Inc., Memphis, Tenn.

Harrisburg Railways Co., Harrisburg, Pa.

Houston Transit Co., Houston, Tex.

Johnson Bus Lines, Inc., Milford, Mass.

Louisville Transit Co., Louisville, Ky.

Palmer Motor Coach Service, Inc.,
Palmer, Mass.

Portsmouth Transit Co., Portsmouth, Va.

St. Joseph Light & Power Co., St. Joseph, Mo.

St. Louis Public Service Co., St. Louis, Mo.

San Antonio Transit Co., San Antonio, Tex.

Southern Pennsylvania Bus Co., Chester, Pa.

Teche Greyhound Lines, New Orleans, La.

Trenton Transit, Trenton, N. J.

United Electric Railways Co., Providence, R. I.

Valley Transportation Co., Lemoyne, Pa.

AGAIN . . . ROSS ranks high—with 12 of the 17 makes of equipment operated by the award winners *steered* by ROSS. To all of them . . . and to the operators and manufacturers of the many other types of vehicles in America's vital, motorized transport system—Ross extends congratulations for a job well done.

The Ross policy of incorporating advancements in design as they are proved by exhaustive tests has resulted in many recent improvements. Current Ross models have:

(1) Increased mechanical reduction . . . (2) More compactness . . . (3) Reduction in weight . . . (4) Greater arm angular-travel . . . (5) Improved metallurgy . . . (6) Increased efficiency.

Throughout 44 years of leadership in this industry, Ross Gears have been distinguished for long life, simplicity of adjustment and maintenance of long-recognized qualities of safety, stability and performance. We invite discussion of any steering problem.

Ross

Cam & Lever **STEERING**

ROSS GEAR AND TOOL COMPANY • LAFAYETTE, INDIANA

CCJ News Reports

Continued from Page 23

behalf of the trucking industry during 1951. The committee will give consideration to distinguished service in such fields as safety engineering, safety education, public service, cost accounting, labor relations, legislation and public relations.

Alfred H. Roth will represent the Towmotor Corp. of Cleveland on the materials handling committee. A sizable section of the show space has been reserved for exhibits and demonstrations of salvaging equipment, according to H. Franklin Turner, show manager. Further details can be obtained by writing to Mr. Turner at Automotive Transport Trades Council, 100 Fifth Ave., New York.

1951 Truck Trailer Shipments*

	July	Seven Months
VANS		
Insulated and refrigerated.....	225	2,493
Steel.....	63	
Aluminum.....	162	
Furniture.....	89	432
Steel.....	83	
Aluminum.....	6	
All other closed-top.....	1,551	16,390
Steel.....	1,026	
Aluminum.....	525	
Open-top.....	161	2,108
Steel.....	108	
Aluminum.....	53	
Total—Vans.....	2,026	21,423
TANKS		
Tetroleum.....	387	2,830
All other.....	24	302
Total—Tanks.....	411	3,132
POLE, PIPE, AND LOGGING		
Single axle.....	113	843
Tandem axle.....	177	1,228
Total.....	290	2,071
PLATFORMS		
Racks, livestock and stake.....	143	1,055
Grain bodies.....	102	449
Flats (all types).....	906	5,910
Total.....	1,151	7,414
Low-bed heavy haulers.....	463	1,959
Dump trailers.....	89	669
All other trailers.....	132	2,227
Total—Complete trailers... 4,562	38,895	
Trailer chassis.....	232	1,891
Total—trailer and chassis.. 4,794	40,786	

*—Industry Division, Bureau of the Census.

Pixie Dept.

As can happen in the best regulated families, there was a "jump line" error in the October issue. Readers who may want to save Emil Gohn's valuable article, "Graph Predicts Vehicle Performance," which began on page 66 will find the continuation on page 142.

Intercity Tonnage Increases

Intercity tonnage transported by motor carriers in the second quarter of 1951 climbed 10.2 per cent above the volume carried in the same quarter of 1950, marking a new high for a second quarter. This marked the seventh successive year that a second quarter gain has been made over the second quarter of the preceding year. The 10.2 per cent jump compared to increases of 27.6 per cent in the second quarter of 1950 over 1949, and 24.6 per cent in the first quarter of 1951 over 1950.

All figures are based on continuing survey by American Trucking Assns.

Contest Announced

For a trip to Mexico this winter, write 200 words or less on how your company used a decalcomania to solve an advertising problem, increase its effectiveness, promote identification or point-of-sale promotion. The offer is made by The Meyercoed Co., 5323 W. Lake St., Chicago 44, Ill., and the deadline is January 15, 1952. Entry blanks are needed, so write to Ralph E. Royer, advertising manager at Meyercoed.

Show to Feature Diesel Clinic

The Southwest Automotive Show, scheduled for the Sam Houston Coliseum in Houston, Texas, on March 20-23, will have a diesel engine clinic. It will be among the 500 or more display booths scheduled for the event and will be of special interest to those concerned with maintenance and repair of diesel units.

Illinois Announces Penalties

Penalties for overweight trucks in the state of Illinois have been clarified in a recently enacted law. The driver, the owner, or both, may be prosecuted for violation of the weight code and fined from 2 cents to 10 cents per pound. The scale of fines per pound of excess graduates from 2 cents to 10 cents per pound of excess weight when the excess is over 5000 lb. Should the defendant prove that the violation was not more than 350 lb per single axle and that it was caused by a load shift, the fine has a \$1 maximum.

Highway Tax Diversion Laws Win and Lose in Legislatures

Laws that would curb the spending of highway tax revenue for purposes other than highways have both succeeded and failed in recent sessions of state legislatures. According to a round-up prepared by the National Highway Users Conference, the majority has been on the side of failure.

In twelve states—Arizona, Connecticut, Delaware, Florida, Illinois, Maryland, Montana, New Jersey, New Mexico, New York, Rhode Island and Wyoming—amendments prohibiting diversion of highway funds have failed to be approved.

In two states—Alabama and Georgia—a similar amendment to the state constitutions has passed. New Jersey tried to prevent tax diversion by statute and failed, as did Indiana. Several other states have amendments in process.

LP Carburetor Given OK

Notice of approval has been received by Century Gas Equipment Co., Lynwood, Calif., on their automotive type LP carburetor from Underwriters' Laboratories, Inc. The unit may now carry the UL insignia. The manufacturer believes that this is the first such LP device to receive this certification.

Objections Filed With ICC

The Interstate Commerce Commission has been asked by 20 motor carrier accounting organizations and the National Traffic Committee of Motor Carriers to withdraw a notice issued in July which would require all Class 1 motor carriers to report truckload shipments by commodity groups.

In urging the action, the motor carriers declared that such reports would be "of little or no value," and would impose "undue and unfair burdens" upon them. Further, they maintained that such practices would disclose information regarding shippers' traffic "which they are required by law to keep confidential."

(TURN TO PAGE 320, PLEASE)

1951 Domestic Truck Factory Sales by G.V.W.*

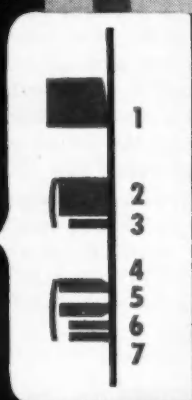
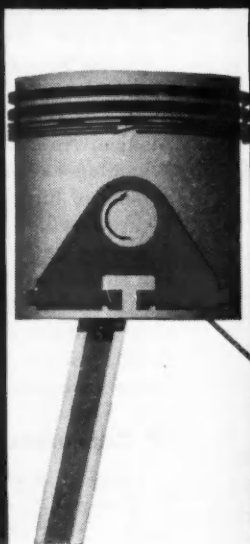
	5,000 lb and less	5,001-10,000	10,001-14,000	14,001-16,000	16,001-19,500	19,501-26,000	Over 26,000	Total
January.....	50,435	21,029	8,476	16,957	5,528	5,657	3,180	109,262
February.....	43,207	16,940	6,639	14,767	4,676	5,320	3,285	94,634
March.....	52,948	25,003	9,467	17,987	3,719	5,786	3,305	118,235
April.....	51,290	21,638	11,179	18,605	5,165	6,304	3,302	117,483
May.....	52,991	22,082	11,389	19,837	5,052	6,652	3,458	121,461
June.....	51,390	22,181	7,854	19,286	4,683	6,675	2,830	115,079
July.....	39,879	18,585	6,364	15,109	3,707	5,060	2,713	91,517
August.....	42,072	19,579	5,678	16,627	5,375	6,276	3,302	99,007
8 Months, 1951.....	394,312	167,037	65,264	139,055	37,095	47,930	25,375	686,878
8 Months, 1950.....	390,455	167,746	55,770	119,371	29,473	26,530	18,215	607,560

*—Automobile Manufacturers Association.

Correct Piston Rock

and stop premature engine wear, too!

THE RAMCO
MULTIPLE
CONTACT METHOD
PUTS 7
BEARING CONTACTS
ON CYLINDER WALL
TO STABILIZE
PISTON



When skirts are collapsed the Ramco Method employs **RAMCO PISTON SKIRT STABILIZERS** that permanently correct for collapsed skirts by placing pressure at right angles from the wrist pin.

by correcting "Rocking Chair Action"

with multiple contacts instead of pressure...

RAMCO ACTUALLY CURBS WEAR



MULTIPLE contacts make possible control of piston rock, ring barreling and all other ring conditions due to rocking chair action! They make possible the use of stabilization rather than pressure to control oil and blow-by.

That is why Ramco 10-Up Ring combinations are kind to cylinder

walls... why they actually work to curb further wear when installed in tapered or out-of-round cylinders.

Send for latest Catalog of
Ramco Heavy-Duty Piston Rings!

RAMSEY CORPORATION
St. Louis 8, Missouri

RAMCO 10 up all purpose
RINGS

Ramco 10-Up Heavy-Duty Piston Rings Are Especially
Designed for Fleet Installations... Re-Ring or Re-Bore!



DETROIT DISPATCH

by LEN WESTRATE Detroit News Editor

Reo Liberalizes Warranty

Reo has made two modifications in its factory service policy which are of considerable importance to its customers. The first involves discretionary authority for its branches and distributors to go beyond the terms of the standard "4000 miles or 90 days" warranty in making adjustments on parts deemed defective or of sub-standard material. It is important to note that the standard warranty remains in effect and unchanged. When going beyond the standard warranty, however, Reo will participate in the adjustment on a sliding scale downward which starts at 80 per cent after 4000 miles and reduces 4 per cent for each additional 1000 miles of service up to 25,000 miles or one year after delivery. The second change in Reo's policy involves liberalizing of parts and labor allowances to its dealers in making policy adjustments under the standard factory warranty. This policy is designed to provide Reo owners uniform and more satisfactory service on policy adjustments regardless of whether done by the selling dealer or at one located away from the owner's home base. It is also intended to provide more adequate reimbursement for emergency policy work done in a Reo dealership and to eliminate confusion in handling policy work done by one dealer on units sold by another.

May Up Cetane Number

A report on tests now being conducted by the Navy with diesel fuels using amyl nitrate as an additive to increase the cetane number is expected within two or three months. It is understood that results have been very encouraging and that there is a good chance that the amyl nitrate additive may be made available commercially in the not too distant future. One advantage is that a more uniform diesel fuel in respect to cetane rating could be made available throughout the country. There also is some opinion that compounds other than amyl nitrate may be developed as diesel fuel additives.

New Bearings Prove Out

Excellent results with steel-backed aluminum alloy engine bearings in military vehicles is expected to result in their use eventually in commercial truck engines. In heavy service the bearing has stood up exceptionally well and shows a high degree of embeddability of lubricant. Another advantage is that it gets away from use of scarce copper.

Truck Sales Strong

Truck sales continue very strong. Actually, field inventories are smaller than they were last summer

as indicated by reports filed by truck manufacturers with NPA. Truck exports this year are exceptionally strong and are expected to approach 200,000 units, the highest in recent years.

Insurance Rates Soar

Excess rates for insurance for truck operators are likely to go much higher, according to S. A. Simpson, president of Transport Indemnity Company of Los Angeles. He told the Michigan Trucking Association convention recently that prejudice by juries against truck owners in damage suits has resulted in fantastic and unreasonable awards and that even Lloyds of London is becoming wary of truck insurance. He said that the market for excess coverage never has been so precarious.

Of Shortages and Headaches

NPA has told members of the National Truck Body Builders and Distributors Association that they will have to substitute more wood for steel in truck bodies. An NPA spokesman said, however, that the long range outlook for aluminum for truck bodies is good despite a temporary cut of 20 per cent in prospect within the next six months.

The critical copper shortage has resulted in several attempts by manufacturers of both cars and trucks to use substitute materials in radiators and radiator tanks with very little success thus far. The latest development in this direction is use of the "souvenir" process, which involves atomizing copper which is then deposited in a very thin layer on a steel backing. It is currently being used in radiator tanks and there is some work in progress to adapt it to tubing. It is still too early to tell whether it will be satisfactory, however. Previously, steel tanks coated with resin had been tried, but were unsatisfactory because of leakage problems.

And As For Roads . . .

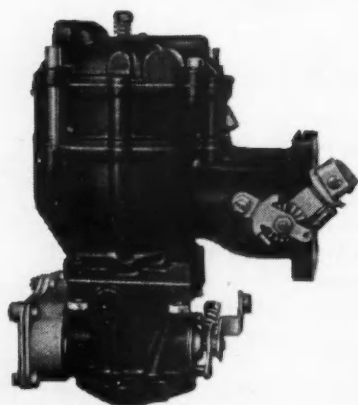
Definite plans for a revival of a good roads movement throughout the country are beginning to take shape. Organizations such as ATA, ASF, NHUC, and similar groups are becoming increasingly active, along with companies in the petroleum, rubber, and automotive industries. General Motors has thrown its full support into such a program with a new film called "Let's Get Out of the Muddle," which clearly outlines the problem of traffic congestion and its causes and solution. A basic approach for all interested companies and groups is a grass roots attack aimed at enlisting the support of the whole public behind a concerted and well conceived program of more and better highways.

Does Your Truck Have Sales Appeal?



IT ALL DEPENDS
ON PERFORMANCE
and
PERFORMANCE
DEPENDS ON

Zenith CARBURETORS



In the practical field of commercial transportation, product preference is determined solely on performance. Nothing contributes more to the achievement of this desirable end than efficient carburetion. You can be sure that manufacturers whose vehicles are equipped with Zenith, the leader in the field of heavy duty carburetion, have measured carburetion costs in lasting terms rather than initial expense. Zenith's rugged construction, strong idling, freedom from stalling and response to every power demand gives any commercial vehicle added sales appeal. It pays to specify Zenith—the engineers' choice for trouble-free operation.

ZENITH CARBURETOR DIVISION OF

696 Hart Avenue • Detroit 14, Michigan

Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, N. Y.





WASHINGTON RUNAROUND

by KARL RANNELLS Washington Correspondent

1951 Truck Production Down

Current outlook for 1952 indicates that truck production will fall considerably below 1951 volume, perhaps as much as 15 to 20 per cent. But control officials say enough materials will be made available to keep production above the 1,000,000 mark. Ratio of light, medium and heavies will remain about the same.

Current thinking of the Office of Defense Mobilization is that the trucking industry is getting "enough new trucks to maintain its increased rate of operations."

This is based on a record production year despite materials scarcity, only a small drop in dealer inventories (about 150,000 in stocks in September), and surveys which show that intercity highway freight has little more than doubled over the past 10 years.

Some officials particularly in Defense Transport Administration, doubt that the one million minimum is adequate or realistic. The DTA first quarter requirements as presented asked for 256,000 vehicles, pointing out that this figure is based largely on replacement needs—that 33 per cent of total trucks registered are 10 years or more older. This estimate of needs is exclusive of whatever trucking vehicles are needed for military orders.

Lead Shortage Shows

Impact of the lead shortage will have two serious results for the trucking industry—lower octane ratings for gasoline and a possible shortage of batteries.

Tetraethyl lead manufacturers report that they had barely enough lead on hand in October to maintain production through the month. While the industry will continue to share in allocations, it seemed likely that unless the supply improves tetraethyl manufacturers will have to get along with at least 25,000 tons less next year—a cut of 10 per cent.

The battery outlook is dark. Control officials have been considering a standardization order which would limit the sizes, types, and ampere-hour ratings for all motor vehicles, light aircraft, and small boat batteries.

Estimate of battery needs for 1951 have been put at 27,000,000 units—of which 22,000,000 are needed for replacement purposes. Only about a third of total estimated needs were produced during first half 1951. The traditional big output period is the second half but there was doubt last month that the 27-million goal could be met.

ICC Safety Section—Out?

Fate of the ICC's Bureau of Motor Carriers' safety section and its enforcement activities had not been decided late last month. It was scheduled to be taken up again at a meeting of the full Commission early this month.

(TURN TO PAGE 296, PLEASE)

The whole matter was left wide open after a discussion by the Commission early in October and a subsequent conference with members of the House Interstate & Foreign Commerce committee. The latter meeting was largely a bull session for getting a line on the intent of Congress with respect as to where the cuts in ICC appropriations should be applied.

There was no doubt, however, that the safety activities of the Bureau will be drastically curtailed. The big question was said to be whether the safety work should be wiped out altogether or a skeleton staff attempted.

The trouble is, one member says, there just can't be much more contraction. Personnel has already been lost. It is pointed out that the backlog of complaint cases has increased by 11 per cent. At the present time, something like 3000 matters are pending.

ICC Safety Rules Held Up

Action is still pending on the issuance of the new ICC safety rules. As reported, the preliminary draft has been ready for Commission consideration for some time. But best information early this month was that the regulations will be pigeon-holed until the ICC has definitely outlined its course for the coming year under reduced operating funds, particularly for safety work.

This does not mean that action on the rules will be held up indefinitely. Far from it. Officials say that one of the primary purposes in drawing up a new set of safety regulations was to provide the individual states with a uniform code on which to base their own safety requirements. This much would still be accomplished in any event.

One thing did seem to be indicated, however. There was little doubt that reports now being made by the carriers under the safety regulations would have to be dropped.

Freight Cars Short

Lagging of the freight car program is likely to bring a severe shortage of open cars during the coming winter. Actual 1951 production through September was 67,500 units against the planned production of 90,000. This means that the order backlog of 140,000 cars is only 5000 less than last Jan. 1.

Future looks no better before next spring. Materials allocations for the first three months of 1952 will permit manufacture of only 18,000 freight cars, plus 2000 tank cars.

(TURN TO PAGE 296, PLEASE)



NEGLECTED WIRES *cause* **FIRES!**

Defective wires and cables are the worst fire hazard in cars, trucks, buses. Here's proof!

In Chicago alone, 3,633 motor vehicles burned up in 1949. Of these, 2,298—that's 63%—caught fire because of defective wiring!

National Safety Council figures like these tell the same story all over the country—with "caused by defective wiring" fires running as high as 92%!

Remember this! Motor Age editorial investigation of 1940-47 cars proves that:

- 5 out of 10 need light wires!
- 6 out of 10 need battery cables!
- 2.5 out of 10 need ignition wiring!

This is an indication of what happens to wire and cable under the punishment of

heavy duty service in trucks and buses.

Eliminate this fire hazard from your own fleet by *regular* checking of the wire and cable on *every* unit. When the fire trucks roll, it's too late. When insulation is cracked or worn or conductors corroded, install Crescent Wiry Joe Wire and Cable *immediately*. That's the way to eliminate a great fire hazard, and also increase engine efficiency.



THE CRESCENT COMPANY, INC., Pawtucket, R. I.

Check the wire and cable on every car!





This 7¼-mile stretch of paved highway is designed for axle weights of 22,500 lb, for speeds of up to 90 miles per hour



Outriggers keep trucks from overturning while subjected to the tortures of the test track. Grades on the figure 8 course range from 20 to 60%. Trucks are serviced in a complete field shop

Harvester Proving Ground

Ready for Work-Out

Phoenix test strip puts IHC trucks through the paces, insures the fleetman of well-engineered units

TO A SMALL GROUP of press representatives flown to the site in mid-October, International Harvester's motor truck division first revealed full details of its new Phoenix, Ariz., proving ground. Built at a cost in excess of a million dollars, the new 6½-acre site located in mountainous terrain south of Phoenix, features a 28-ft paved test track 7¼ miles in length and believed to be the longest test loop of its kind in the country.

Here Harvester trucks of all capacities are grilled up to 34,000 truck-miles per week. Besides offering ideal opportunities for testing trucks picked at random from the production lines and new experimental models, the proving ground also provides an ideal setting for proving truck components such as axles, transmissions, suspension systems, engines, air cleaners, carburetors and other units.

The paved highway stretch has attracted the interest of the Arizona State Highway department since it has some unusual features of construction and is designed for axle loading of 22,500 lb per axle and speeds up to 90 mph. Part of the interest lies in the manner in which fill material was handled. Usually this material is wet down, then compacted. In this case the fill, composed of caliche and rock was put down dry, the scrapers providing pneumatic compaction. It is claimed that compaction averaging around 94 per cent has been achieved, compared with 85 to 90 per cent in conventional practice.

A feature of the paved test track is a long 9-per cent grade, known on the proving ground as "The Nine." This grade, which required 132,000 cu yd of fill to be brought as high as 78 ft from ground level, requires test drivers of the larger trucks to run through their entire gear ranges every time around.

Besides the big paved test track, the proving ground contains a rough 4-mile dirt test track, 11 miles of access roads, and a number of special test areas. These include a course for the racking "figure 8" test and a series of steep grades, ranging from 20 to 60 per cent, for testing off-highway trucks. An air cleaner test has been established in an area whose sand and dust are reputedly "the most abrasive in the U.S." There is also a 5900-ft strip of "dead flat" 40-ft paving on the test loop for cooling, braking, and acceleration tests. A combined water and mud bath for seal tests is projected.

The comprehensive motor truck ser-

vice shop included in the set-up, contains a machine shop, engine reconditioning area, chassis dynamometer, engine dynamometer, and two hydraulic lifts, one of which can handle three-axle vehicles. The shop provides service facilities for a fleet of 35 trucks.

Of interest to fleet operators is the fact that the shop has been fitted with standard IHC service tools of the latest type, the same as are used for conventional service operations. Not only will this make it possible to prove the utility of approved shop tools but it provides the setting for the development of new and improved tools. In addition, accurate service cost records will be accumulated to check in every-day operations the recommended flat rate data.

In conjunction with the proving ground announcement, International Harvester also revealed that nearly \$8 million had been budgeted for engineering and research facilities now nearing completion in Ft. Wayne.



NEW WOLF'S HEAD HEAVY DUTY OIL Scientifically Fortified to give 9 Added Features!

Approved By Caterpillar, General Motors and
Under U.S. Army Specification MIL-O-2104

Here's the new, specially refined, scientifically fortified WOLF'S HEAD Heavy Duty Oil—100% Pure Pennsylvania . . . the finest Heavy Duty Oil obtainable, with 9 added features!

- ① **Exceptional Film Strength**—Eliminates unnecessary wear, scuffing, scratching even under the most severe operating conditions.
- ② **High Detergency**—Removes sludge, varnish and carbon deposits safely and completely. Keeps engines clean!
- ③ **Complete Dispersancy**—Holds all contaminants and other products of combustion harmlessly in suspension.
- ④ **Maximum Resistance to Oxidation**—Withstands highest engine temperatures and pressures. Won't thin out, break down or oxidize!
- ⑤ **Superior Protection against Corrosive Acids**—Prevents formation of corrosive acids, eliminates corrosive wear, protects bearings against corrosion.
- ⑥ **Anti-Rust Protection**—Gives maximum resistance to rusting under all operating conditions.
- ⑦ **Non-Foaming**—Won't foam even in the most severe service.
- ⑧ **Superior Stability**—Maintains its rich, tough lubricating qualities under all operating conditions.
- ⑨ **Holds Oil Consumption to a Minimum**—All unstable quick-burning, non-lubricating fractions and impurities have been removed.

Call your WOLF'S HEAD Distributor today or write for further information.

Wolf's Head Oil Refining Co., Inc., Oil City, Pa., New York 10, N. Y.

WOLF'S HEAD

MOTOR OIL AND LUBES

100% Pure Pennsylvania
"Premium Grade"



Member, Penna. Grade
Crude Oil Association

IN *Oil Field* WORK

NO TRUCK EQUALS

OSHKOSH

- FOR *all-wheel* POWER
- DEPENDABLE SERVICE

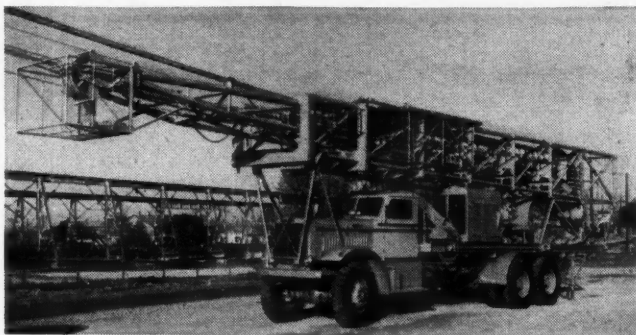
The "secret" of Oshkosh's all-wheel power is the automatic locking center differential in transfer case in 4x4 models. Simple and rugged. Only Oshkosh has it. 6x6 models have front axle declutch type transfer case for on and off road flexibility.

For over 30 years Oshkosh trucks have been outstanding for power—durability—stamina, and they are ruggedly built for off-highway hauling, drilling, and handling heavy loads in oil field service. Backed by 24-hour-a-day factory service facilities, Oshkosh owners lose little time on repair jobs.

Today, when every dollar counts, it's sound business to compare trucks from every angle: initial cost, maintenance, and length of service. Compare—and you'll choose Oshkosh. Ask any user!

Service stations located at convenient points throughout the United States and Canada.

Write for new "IB" folder which describes why—feature for feature—no truck equals an Oshkosh.



OSHKOSH

4 WHEEL
and
6 DRIVE
TRUCKS

OSHKOSH MOTOR TRUCK INC.
OSHKOSH WISCONSIN

1951 New Truck Registrations by Makes by States*

STATE		Auto-car	Brock-way	Chevrolet	Diamond T	Divco	Dodge	Federal	Ford	FWD	GMC	International	Ken-worth	Mack	Peter-bilt	Reo	Star-ling	Stude-baker	White	Willys	All Others	Total
Alabama	August	2		844	2	2	190		543		195	130		9		3		69	19	32	2	2,042
	8 Mos.	8		6124	12	18	1362	7	4033	1	1471	905		113		25		463	153	237	18	14,930
Arizona	August	4		231	1	1	73		162		70	63		1		2		28	5	25	6	4,697
	8 Mos.	7	2	1630	8	9	542	4	1146		546	375	8	13	4	19		164	52	137	25	4,697
Arkansas	August	1		847	2		139		489		289	123		3		2		76	3	10	1	1,867
	8 Mos.	1		5046	9		1095		3360		1706	834		13		24		453	56	235	7	12,529
California	August	19	2	1785	45	11	737	4	1142	5	677	445	20	31	21	5	7	185	41	82	14	5,229
	8 Mos.	157	8	14563	291	276	6021	23	10388	70	5442	3068	173	322	176	103	82	1506	375	844	93	43,891
Colorado	August	3		450	2	1	98		284		137	117		1				37	3	29	4	1,168
	8 Mos.	22		3317	19	32	755	8	2314	8	968	981	15	43		28		272	28	320	25	6,533
Connecticut	August	2		189	7	4	98		136		55	66		16		3		35	7	13		5,553
	8 Mos.	45	47	1798	67	75	689	26	1229	1	433	530		239		44	8	189	90	158	15	5,553
Delaware	August	1		79		2	20		76		16	26						8	2	1		1,900
	8 Mos.	4	9	659	12	5	174		586	1	132	202		11		10		58	16	24	6	1,900
Dist. of Columbia	August	4		87		5	27		46		22	19		1				4	3	3		2,416
	8 Mos.	7	3	751	23	33	218	5	390		268	204		15		15		17	29	60	5	2,416
Florida	August	1		590	21	6	213		423		175	89		17		4		90	12	75	9	1,734
	8 Mos.	7	2	5190	106	45	1976	4	3558	2	1220	884		237		82		719	138	678	87	14,938
Georgia	August	1		1012	3		298		755		275	195		15		1		141	14	8		2,721
	8 Mos.	1	7	8382	24	15	1970	6	6137	2	2131	1448	1	177		47	2	906	168	292	38	21,794
Idaho	August	1		314	5		74		203		138	101		2		1		21	3	46		1,918
	8 Mos.	5	11	1602	37	5	464	12	1107	1	845	581	39	46		15	1	210	35	361	7	5,778
Illinois	August	5	11	1508	58	18	367	6	899		317	441		16		11	3	88	65	55	16	3,994
	8 Mos.	40	4	11564	479	166	4095	22	7247	5	2873	3799	1	228		116	23	808	483	522	86	32,581
Indiana	August	1		875	10	6	222		551		157	249		6		12		113	21	32		2,283
	8 Mos.	4	1	6829	77	60	2225	11	4812	5	1429	2586		128		90		925	383	371	35	29,078
Iowa	August	1		906	8		164		551		147	270		4		2		62	6	25	3	2,154
	8 Mos.	1		5743	74	28	1357	2	4350	1	1134	2134		46		23		453	109	202	22	15,878
Kansas	August	1		483	6	5	122		376		128	141		2		2		36	17	36		1,908
	8 Mos.	5		5120	34	22	1039	1	3222	1	1261	1406		9		16		349	91	289	11	12,866
Kentucky	August	1		530	1	2	131		435		121	127		2		9		49	9	67		1,460
	8 Mos.	6		4675	45	13	1102	5	3305	2	1231	1067		46		26		408	67	493	20	12,718
Louisiana	August	1		847	11	7	112		455		152	113		3		5		63	6	26	1	1,862
	8 Mos.	9		4976	76	12	913		3794	5	1450	895		29		5		511	53	246	9	12,868
Maine	August	1		104			28		101		47	20						13	1			528
	8 Mos.	7	10	1266	3	4	302	8	935		382	318		87		7		137	44	119	9	3,653
Maryland	August	1	3	273	1	3	67		162		68	71		8		1		20	13	11		724
	8 Mos.	22	48	2576	14	58	883	43	1788	1	703	722		155		42	5	149	104	126	6	7,448
Massachusetts	August	12	5	372	10	20	164		343		99	108		19		8		49	16	32		1,272
	8 Mos.	158	81	3143	94	125	1272	30	2570	6	848	869		249		103	35	284	261	185	31	16,532
Michigan	August	1		1192	5	12	301		1065		218	121		16		12		68	13	41	5	3,971
	8 Mos.	43	1	10594	83	167	3068	75	8902		2253	1749	1	158		199		523	226	332	39	28,417
Minnesota	August	1		604	4	2	154		465		149	273		7		5		69	13	25	8	1,786
	8 Mos.	5		4575	50	30	1467		3600	17	1158	1784	13	51		29	1	557	89	252	48	13,728
Mississippi	August	1		700			134		416		259	128		5		2		58	3	10	2	1,728
	8 Mos.	10		5394	4		1047	7	3467		1926	948		47		2		417	56	335	7	13,867
Missouri	August	1		978		1	231		624		279	197		6		4		73	35	32		2,467
	8 Mos.	10		9189	45	91	2393	2	5689		2647	1800		44		51	2	618	384	307	23	23,286
Montana	August	1		377	8	2	65		257		90	147		3		2		31	4	62		1,908
	8 Mos.	3		1955	34	5	415	4	1277	4	627	673	22	26	5	32		221	40	421	3	5,767
Nebraska	August	3		413	8	4	65		302		132	140		2		1		54	10	37		1,178
	8 Mos.	5	1	4348	107	14	744		2844	5	1257	1391	25	46		25		381	93	359	16	11,880
Nevada	August	1		42			14		16		25	13						4				117
	8 Mos.	1		409	4		144		246	1	246	123		5		1		35	3	48		1,288
New Hampshire	August	1		97			30		60		22	18						9	2	12		547
	8 Mos.	10	11	780	3	12	245	3	579	2	231	202		69		15		84	17	93	1	2,364
New Jersey	August	18	28	687	7	38	196	5	522	1	188	163		55		10	3	46	43	55	10	2,670
	8 Mos.	161	294	5972	111	231	1825	64	4039	8	1540	1370		484		83	18	388	362	452	48	17,430
New Mexico	August	1		145		1	21		131		30	24		1		4		12	1			274
	8 Mos.	14	52	1233	36	54	496	5	774	2	525	253	2	26	1	5		162	9	125	7	3,944
New York	August	248	560	11053	411	318	4585	103	6993	32	2862	3365		1117		413	25	731	904	884	213	34,797
	8 Mos.	3		966	1	5	192		666		284	200		14		3		84	16	52	51	2,830
North Carolina	August	63	4	7231	26	58	1542	8	4954	1	2094	1376		324		32	2	671	218	346	209	19,188
	8 Mos.	4		344	2		93		289		91	246				1		38		14		1,118
North Dakota	August	4		1610	7	2	482	7	1233		371	794		1		3		185	4	122	3	4,864
	8 Mos.	89	10	1207	13	41	413	5	913	13	282	318		28		16		106	85	81	4	3,617
Ohio	August	89	10	10887	174	247	3581	45	8121	13	2573	3147		377		203		926	923	801	93	32,216
	8 Mos.	1		751		7	136		493		213	154				1		66	18	29	1	1,873
Oklahoma	August	1		5687	3	43	1265	1	3715	26	1325	1154	8	20		22		355	165	221	8	14,816
	8 Mos.	8		341	8		119	2	191		174	157		10		1		30	18	62		1,126
Oregon	August	1		3139	67	21	1244	15	1936	1	1193	1087	58	167	15	20	8	289	117	593	39	10,016
	8 Mos.	27	60	2081	26	27	774	10	1303	1	461	557		75		25	1	151	90	100	21	5,790
Pennsylvania	August	185	447	11652	217	123	4986	88	8262	4	3029	3789		844		184	22	947	774	813	127	36,468
	8 Mos.	8		62	1	4	22		77		14	24		4		1		9	7	1		228
Rhode Island	August	43	5	631	12	23	215		590		143	205		44		1	2	60	49	41	6	2,670
	8 Mos.	11		494	3	4	93		269		132	59		11		4		52	11	6	3	1,142
South Carolina	August	1		4090	12	9	902		2269	2	951	573		108		4		305	87	122	17	9,481
	8 Mos.	1		242	1		57		181		65	163		1		3		40	2	2		

caught

WITH OUR PLANS DOWN!

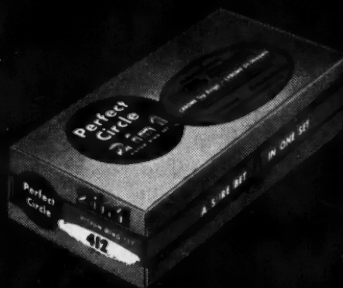
YES, OUR PRODUCTION PLANS for the 2-in-1 Chrome Piston Ring Set were way down! No one anticipated that the 2-in-1 design and performance features would be accepted by mechanics everywhere... with such immediate enthusiasm that our extensive production facilities would be inadequate.

NOW, it is quite obvious that our engineers were so right when they designed two springs for the 2-in-1 Set, so that mechanics could choose the pressure best suited for the engine after they looked at the cylinders.

SO RIGHT, TOO, when they offered the double protection of solid chrome on both the oil and top compression rings... when they developed the set that would last over twice as long in cylinders that were straight or tapered, round or out-of-round, slightly or badly worn!

BUT WE HAVE PULLED OUR PLANS UP! Current plant expansion will soon make it possible to obtain 2-in-1 Sets every time, on time!

Perfect Circle



The Standard of Comparison

FREE

PUBLICATIONS

FOR YOUR CONVENIENCE USE THIS POSTCARD

**A selected list of the latest literature —
catalogs, pamphlets, charts — chosen to help
fleetmen improve operation and maintenance.**

L114. Spray Finishes

The latest developments in hot spray application of automotive finishes, with detailed information on application materials and equipment, are outlined in a new booklet entitled "A Technical Report on Hot Spray Applications." The booklet answers such questions as: What are the right materials? How should they be used for best results? What are the advantages of hot spray in automotive refinishing work?

In discussing the prominence of lacquer in automotive finishing, the booklet reports that one problem involving the use of lacquer has been the limited solids applied per coat, as compared to those deposited per coat of synthetic enamels. An early approach to this problem was to build up the solids content by specific formulation.

"The hot spray process," the booklet says, "takes the idea of increased solids one step further. In this process, reduction to spraying viscosity is achieved by heating the lacquer to approximately 160 deg F instead of depending entirely on the use of thinners.

The hot spray process of applying either lacquer or enamel is as readily adaptable to small shops as to larger operations. Write L 114 on the postcard for your copy.

L115. Materials Handling

Efficient handling of raw and finished materials, their proper storage, and how modern materials handling machines can expedite manufacture to cut costs, save time and money, is the theme of the newest Clark booklet, "Basic Facts About Materials Handling."

How to combine small units into big ones for more efficient handling, how to route materials, how to utilize "overhead" space for storage, how to use trailer trains, and how to best make use of a limited manpower force are a few of the subjects discussed in the booklet. Filled with down-to-earth specifics, the booklet should prove of great value to anyone who faces materials handling problems.

The new publication, which is "pocket size," also discusses the latest equipment in the materials handling field, and how to figure cost of its use. Cost analysis information includes how to figure amortization of machine investment, fixed charges, and the variable charges that change from job to job. Here is a simple way to determine the economic advantages of modern handling equipment in almost any given situation. Making the best use of existing machines through utilization of attachments, and multiple usage, is

covered also, as are the possibilities of powered hand trucks.

Copies are available for the writing of L 115 on the accompanying postcard.

L116. Fan Belt Manual

A new 10-page fan belt service manual outlines specific conditions causing premature failures—as well as ways to detect and remedy them. Illustrated with diagrams and line drawings showing construction and service features this publication covers such failures as slippage, overload, external heat, improper fit and chemical action. Causes and cures are arranged in easy-to-read list form so that the mechanic can use the material conveniently as a guide to correcting common failures. Write L 116 on the postcard for your copy.

L117. Clutch Catalog

Federal's Clutch Release Catalog No. 2 has just been made available to the industry. Arranged in five sections, the new edition provides application data, complete numerical listing, clutch bearing assemblies information, an interchange table and a size chart.

Write L 117 on the postcard for your copy.

L118. Wage-Hour Law

A booklet of vital interest to every employer who does business in interstate commerce has just been released by the Cincinnati Time Recorder Co., Cincinnati, Ohio, manufacture of Cincinnati time recorders, job cost recorders, master program control units and other time control devices.

A digest of the Federal Wage-Hour Law and recent amendments, the booklet is entitled "In The Dark About The New Wage Hour Law?". It reveals the answers to hundreds of questions for which business men should have the answers, to avoid violation of the law.

For example: the booklet tells who must keep records and what records must be kept. It defines exempt and non-exempt employees, tells how to compute wages for salaried and hourly workers, lists penalties imposed for non-compliance with the Wage Hour Law and tells clearly how to avoid them. The booklet is written in simple language and is profusely illustrated with sprightly cartoons, portraying the evils that befall those employers who are found not in compliance with the Wage-Hour Law, by government agents. Available for the writing of L 118 on the accompanying postcard.

P62. Ignition Testers

A volt-ampere tester and two timing lights are among the new models of testing equipment made by Sun Electric Corp., Chicago. The volt-ampere tester has a built-in calibrating device that permits on-the-spot adjustments, including the recalibration of other testing units. The model X-25 timing light may be used for 6 v, 12 v, or 24 v systems. There is another model timing light which is used for 6 v only. Both lights have increased brilliancy, the manufacturer states, making the timing mark easier to distinguish.

P63. Coupling Clamp

A stainless steel quick-action coupling clamp is being made to customer specifications by Specialty Products Co., Cleveland, Ohio. The clamp has a hinged latch said to be designed for convenience in handling removable hose and duct connections. The manufacturer states that the clamp is designed for high temperature, pressure, and corrosion resistance. The clamp is intended for any quick change connection or any hose or cable installation that requires a tight clamp action in addition to a quick-change feature. The clamp may be used on any size hose or cable depending upon the requirements of the purchaser.

P64. Hand Extinguisher



One hand operation is the chief advantage of this extinguisher, now available from Stop-Fire, Inc., Brooklyn, N. Y. Approved by Underwriters Laboratories, the unit is available in 1 qt, 2½ qt and 4 qt sizes with CBM (chlorobromomethane) or carbon tetrachloride individually or in combination. The expellant may be either air or carbon dioxide. A safety lock prevents accidental discharge.

Other features claimed are that it is readily disassembled for inspection, it has a non-clogging nozzle, patented gaskets, silver soldered joints and a flexible siphon tube for maximum discharge at any angle.

NEW PRODUCTS

FOR YOUR CONVENIENCE USE THIS POSTCARD

Illustrating and reviewing newest developments

in parts, accessories, shop equipment and tools.

For more information use the attached postcard.

P65. Exhaust Ventilator

A detachable tail pipe extension that permits running an engine in a closed garage has been introduced by Kent-Moore Organization, Detroit, Mich. It consists of a permanent vent mounted similar to a letter slot in the door of the garage or partition. A flexible steel cable is attached to the door vent and connected by a universal adapter to the tail pipe. A port is located in this adapter which permits insertion of exhaust-analyzing element. When not in use, the cable may be hung on the wall hanger clip furnished with the unit.

P66. Drying Unit

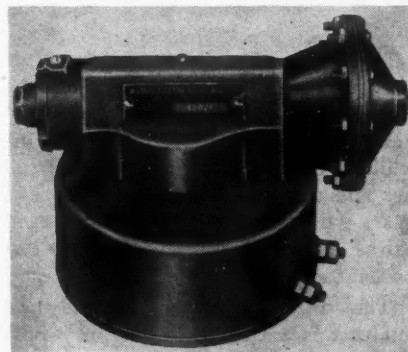
For drying lacquered, enameled, or undercoated surfaces up to 40 sq ft in area, a large model dryer has been introduced by Fostoria Pressed Steel Corp., Fostoria, Ohio. The unit is mounted on an angle-iron frame on wheels, and may be moved to the desired location and position.

P67. Foot Valve

The Automotive Division of Wagner Electric Corporation has announced

the release of a new high-capacity air brake foot valve for heavy duty use.

The larger ports of the valve expedite the movement of large volumes of metered air to the power cylinders. The valve has a preloaded type metering



spring which releases an approximate initial five pounds of air into the system immediately.

The new unit eliminates the necessity of quick-release and relay valves in many cases depending on the size of the wheelbase of the vehicle involved, the maker states. The valve is available in two designs; an actuating arm type for use with the existing pedal linkage and a treadle type construction for direct mounting on the floor board.

(TURN TO NEXT PAGE, PLEASE)

New Product Descriptions

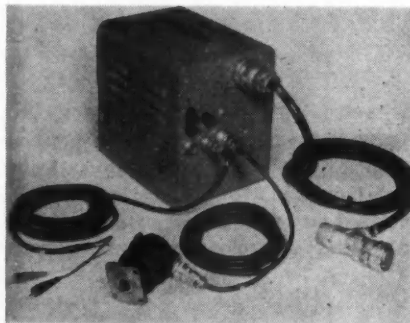
Continued from Page 51

P68. Parts Cleaner

A pneumatic machine that cleans parts mechanically has been developed by Magnus Chemical Co., Garwood, N. J., for use with solvent or alkali solution. The machine platform, on which the parts are placed, sinks to the bottom of the tank and the work is automatically agitated up and down in the solution. The manufacturer's name for the machine is the Aja-Lif. It comes in three sizes heated by gas, steam or electricity. The machine is operated from a standard compressed air system.

P69. Engine Analyzer

A precision scientific instrument for the analysis of spark-ignition engines has entered production at Sperry Gyroscope Co., Great Neck, N. Y. It will analyze electronically, detect, locate and identify detailed ignition and mechanical troubles in power plants containing any number of cylinders.



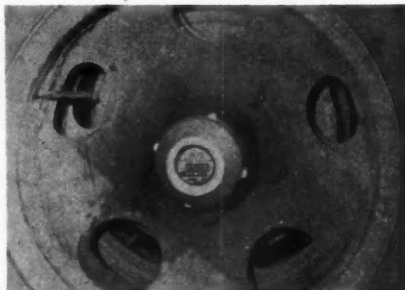
A cathode-ray tube screen on the analyzer shows the mechanic the internal operating condition of the engine while it is running. It warns of cylinder and accessory failures such as bad spark plugs, sticking or damaged valves, and pre-ignition before they can become serious.

The principal feature of the new analyzer is a timing adjustment which makes setting of the timing generator on the engine unnecessary. By turning a knob shaft on the panel, the operator can synchronize the analyzer accurately to any angle of the engine's rotating crankshaft.

The analyzer is completely portable, weighs less than 27 lb., and measures 8½ in. wide, 10½ in. high and 12⅜ in. long. It is recommended by Sperry for engine test stands, engine and fuel laboratories for use on spark-ignition gasoline engines, gas engines, and dual-fuel engines.

P70. Hub Counter

A revolution counter which may be mounted on truck or bus hubs without necessity of a drive or gear assembly has been developed by Knopf Instrument Co., Jersey City, N. J. The read-



ing dials remain horizontal regardless of the position of the wheel.

To install the counter, a hole is driven into the hub cap and the "Hubometer" is attached with a common hexagon nut. The unit needs no further servicing as it is in a sealed case, guaranteed by the manufacturer to be oil, dust, and moisture proof.

P71. Pin Fitter

This pin-fitting machine made by Van Norman Co., Springfield, Mass., is used for reconditioning rod forgings up



to 3½ in. diameter; boring wrist pin holes in pistons and rods; boring piston pin and bearing holes in parallel, maintaining proper center distances; finish boring semi-finished babbitted rods and boring inserts in rods to .00005 in.

P72. Battery Charger

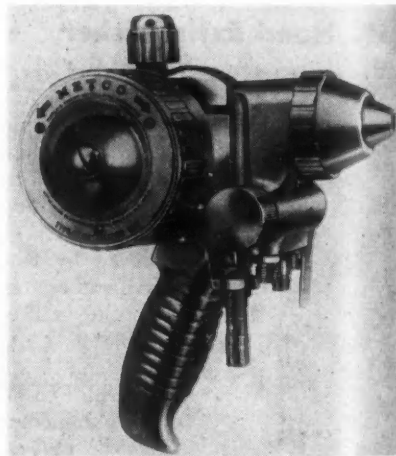
An 80-amp battery charger has been developed by Associated Equipment Corp., St. Louis, Mo. Called the RG-80, it is equipped with a circuit breaker, time clock, two 10-ft charging cables, bronze terminal clamps and an over-night slow charge arrangement which will take up to six batteries connected in parallel. The cabinet is 14 in. wide, 15 in. deep, 27 in. high and weighs 58 lb. It operates on 115-v, 60-cycle current.

P73. Stud Extractor

A three-jaw stud extractor has been introduced by New Britain Machine Co., New Britain, Conn. The outside is a chrome cylinder, 2 in. wide with a hexagon driver on top. The driver is slotted for a ½ in. socket-type insert. The extractor may be operated with an open-end wrench, a hex box wrench or a socket driver. The three jaws are replaceable in sets.

P74. Metallizing Guns

Two new metallizing guns have been announced by Metallizing Engineering Co., Inc., of Long Island City, N. Y., one for machine element work, the other for corrosion protection coatings. The improvements claimed by the manufacturer incorporate a patented jet

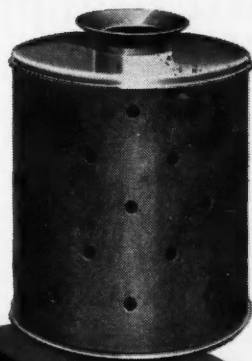


siphon principle in the gas head which automatically compensates for variations in gas pressure as high as 10 lb. The new guns also have an automatic wire feed control.

The machine element gun will spray all wires from 20 gage to ⅛ in. in any metal—bronze, monel, carbon or stainless steels, etc. The corrosion-protection gun is designed to spray softer metals at high speed. The guns may be mounted for use on a lathe or any standard machine.

(TURN TO PAGE 56, PLEASE)

AC



NEW AC
ALUVAC
ELEMENT

OIL FILTERS



Protection

AC Oil Filter Elements Provide It
for Every Vehicle in Your Fleet

NEW AC Aluvac ELEMENT

AC has developed a new element—Aluvac—that's far more efficient than former types. It's increasingly available for more and more commercial vehicles. Ask your AC supplier about it.

Maintenance men know that oil filter efficiency and oil filter quality go hand in hand. AC Oil Filters and Elements give exceptional *protection* against engine-destroying abrasives, acids, and sludge because of the *superior quality* of their construction. AC filtering equipment is designed and built by men long experienced in what it takes to keep engine oil clean. Aiding and abetting them are research, engineering and

testing facilities without equal in the entire automotive industry.

You can rest secure in the knowledge that you are using the best oil filter elements money can buy when you put AC Elements to work in your fleet. They're designed to take out only harmful substances—to keep your oil *clean* without changing its chemical composition or lubricating efficiency. Get AC's and get real *protection*.

AC SPARK PLUG DIVISION



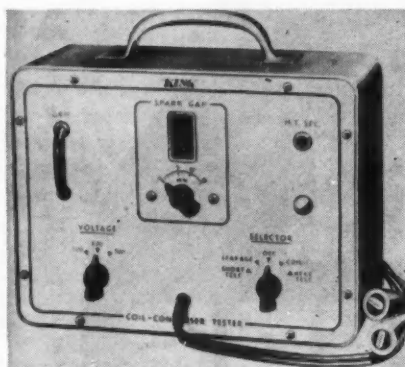
GENERAL MOTORS CORPORATION

New Product Descriptions

Continued from Page 52

P75. Engine Tester

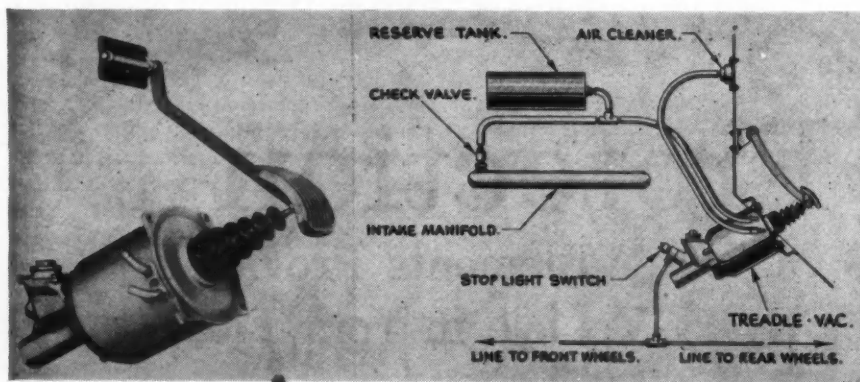
King Electric Equipment Co. of Cleveland, Ohio, has a new model tester, which is designated as G-212. It will test all parts of the truck ignition



system, operating from the vehicle's battery. A power pack is available from the manufacturer which has up to 500 v output for locating trouble in the wiring system. It weighs 11 lb and is 11 in. wide, 9½ in. high and 5 in. deep.

P76. Oil Test Set

Wix Accessories Corp., Gastonia, N. C., has developed a device to determine whether the oil is actually dirty



P77. Power Brake

A new power braking system for passenger cars eliminates the usual brake pedal and has in its place a control similar to an accelerator treadle. Movement of the foot from the accelerator to the "decelerator" saves enough time to stop the vehicle in five feet shorter distance at 60 mph, the maker claims.

Bendix Aviation Corp., South Bend, Ind., calls the new brake the "treadle-

or simply discolored from combustion soot. The kit is pictured here, and is available to fleet operators.

P78. Brake Synchronizer

This brake controller developed by Warner Electric Brake & Clutch Co., Beloit, Wis., makes possible a universal braking system adaptable to any type tractor-trailer combination. The air-controller is essentially a rheostat operated by an air diaphragm. It is normally mounted on the tractor unit, tapped to the air line, and wired into the electrical system. Release of air into the tractor air line acts against the diaphragm which in turn operates the rheostat. The air controller is equipped with a return spring and an adjustment that synchronizes its operation with the air system of any particular tractor.

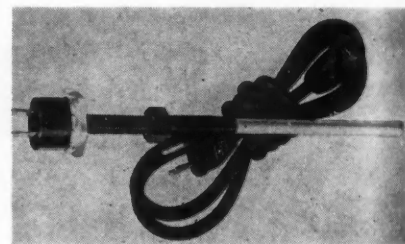
An interchange control panel has been developed that permits a trailer with electric brakes to be pulled with any tractor having air brakes and a brake circuit in its electrical system. The panel is mounted on the trailer and, in using, the driver of the vehicle connects his air couplings in the same manner he does when connecting to a trailer having air brakes.

In other words, by providing an electrical circuit for brakes it is now possible for the owner of electrically-braked trailers to pull them with any air braked tractor in his fleet. Actuation of the electric trailer brakes is accomplished by either his air hand valve or by depressing the foot pedal. Use of the foot pedal insures synchronization.

P79. Engine Heater

An answer to cold weather starting problems has evolved from a device called the Freeman Headbolt. Made by Five Star Mfg. Co., East Grand Forks, Minn., the heater replaces one of the headbolts in a standard automotive engine.

First, the headbolt stud is removed and the heater unit turned into its place. The proper torque is then applied to the head nut on the threaded section and the unit is ready for operation. The heating element is in the portion that extends into the water jacket as shown in the picture.



To operate, the male plug on the heater is inserted into a 110-120 v line ac or dc. It takes from 30 min to an hour to raise the coolant temperature to 60 deg. The unit may operate all night without overheating as its peak is between 110 deg and 120 deg F.

P80. Drum Lathe

Designed primarily for passenger cars, this lathe now being made by Lemco Products, Inc., Bedford, Ohio, will handle 6 in. to 14 in. brake drums unmounted. The lathe has a 3 in. travel and a 16 in. swing.

It is powered by a 1/3 hp motor with eight feeds and a three-speed selector. It has a patented "microfeed" control graduated from .0025 in. to .020. Lemco states that this produces a microinch finish without grinding. The lathe takes up about 4 sq ft of bench space.

One of the features is the elimination of numerous cones, spacers, arbors and adapters generally required with conventional drum lathes. Optional accessories are available to convert the lathe to a reamer drive, hone drive or a bench grinder.

(TURN TO PAGE 298, PLEASE)

Vac." It consists of a power cylinder, a piston with a built-in control valve and a hydraulic section including a brake fluid reservoir. It eliminates the need for a master cylinder in the hydraulic brake system. A "reactionary" force which increases in direct proportion to the amount of brake pressure applied is transmitted to the driver's foot through this treadle permitting a pedal "feel."



"Your electric brakes offer added safety because of ability to synchronize tractor brakes with the electric brakes on the trailer." FRANCIS J. SCHUSTER, Troy Oil Company, Inc.

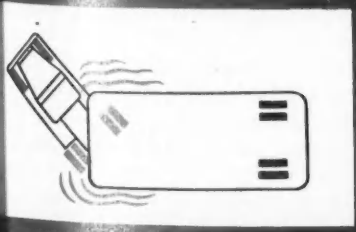
"In our business of transporting petroleum products, dependable brakes are essential. We have units with Warner brakes on them that have travelled over 100,000 miles.

"We know, from experience, that your brakes offer added safety because of the ability to synchronize tractor brakes with electric brakes on the trailer.

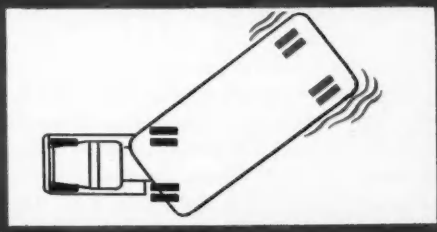
"Therefore, the two independent braking systems provide us with the type of braking that we have been looking for," reports Francis J. Schuster, Vice President, Troy Oil Company, Indianapolis, Indiana.

You, too, can expect this kind of safe, *synchronized* braking when you equip with Warner Electric Brakes for safe *straight-line* braking.

CHRONIZED BRAKES MINIMIZE JACK-KNIFING



is what can happen when brakes aren't synchronized and tractor brakes "come in" first. This type of jack-knife is sudden... wheels slide sharply, recovery is difficult.

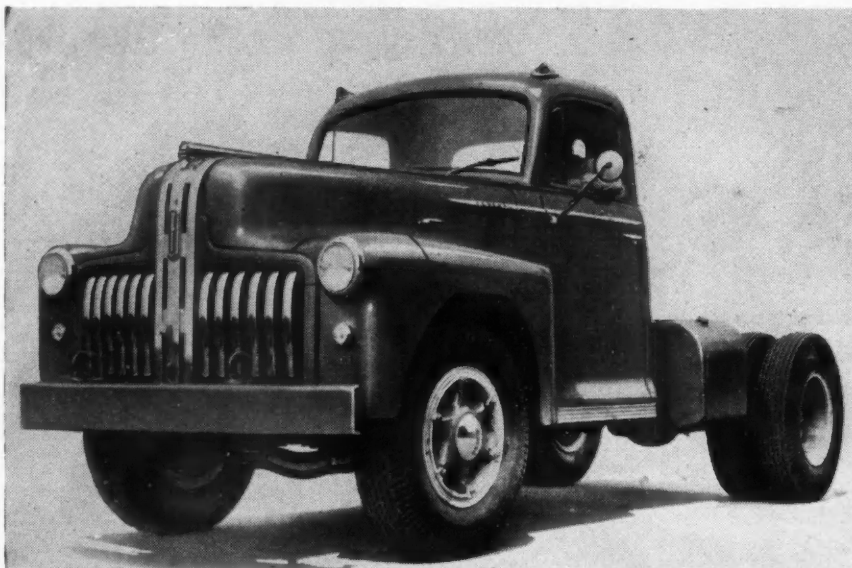


Here's the other type of trouble that can result when brakes are not synchronized. Trailer brakes "build up" first... rear of trailer swings to one side, then "comes around" into a jack-knife.

FREE! New factual folder
"Six Steps to Better Braking for
Truck Trailers." Get your
copy now.



Gives important tips on driver safety through synchronized braking. Explains the precise operation, simplicity of hook-up, amazing economy and added safety features of *electric* braking. Write today. Warner Electric Brake & Clutch Company, Dept. CCJ., Beloit, Wisconsin.



Cab features one-piece windshield, improved driver comforts and visibility. Swing lift fenders provide for quick accessibility to engine compartment

Federal 3400 Series

Powered to Job and Load

**371 cu in. engine develops 145 hp. GVW ranges
from 23,000 to 25,000 in new Style-Liner models**

▼ A NEW 3400 series Style-Liner model with the Power-Chief valve-in-head engine, has been announced by the Federal Motor Truck Co. The series consists of three models—3401, 3402 and 3403, having GVW ranges from 23,000 to 25,000 lb. Truck trailer combination gross weight rating ranges up to 45,000 lb, depending upon model. The line will offer a range of eight wheelbases from 136 to 250 in, with cab-to-axle dimensions ranging from 60½ to 174½ in.

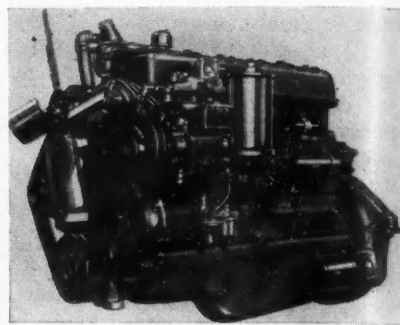
Federal's new Power-Chief six-cylinder, valve-in-head engine has 371 cu. in. displacement and develops 145 hp at 3000 rpm and 297 lb ft torque at 1400 rpm. It is engineered to provide increased power output and peak fuel economy under all operating conditions.

Engine features improved valving and positive valve rotation, sodium cooled and stellite faced exhaust valves with bronze guides. Durable valve inserts and a built-in oil cooler are said to

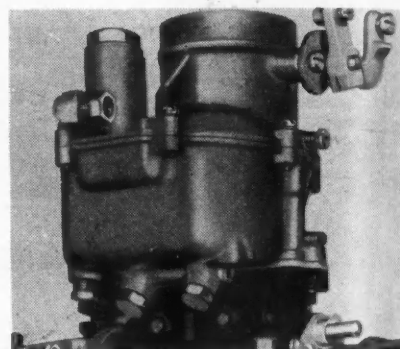
make this engine last longer and cut down maintenance cost. New high-lift camshaft, full length water jacketing and effective system of directional cooling further enhance performance characteristics. Dual carburetion, improved manifolding with climatic adjustment and individual porting system assures proper atomization and uniform distribution of fuel mixture into each cylinder

The all-steel cab is unusually wide with one-piece full-vision windshield, deep cushioned double-life seats and features draft-free ventilation. Driver convenience and safety have been engineered throughout these units with special attention given to easier steering and riding comfort. Fresh air heater and defroster, thermostatically controlled for all-weather operation is also available.

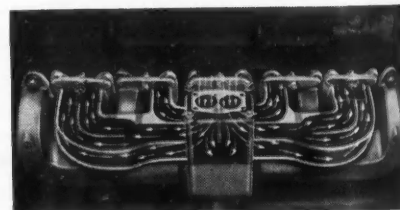
Frames have deep, thick channels with sturdy cross-members and front bumper is frame-mounted for extra



Power-Chief engine with overhead valves uses positive valve rotation, bronze guides, a built-in oil cooler



Dual carburetors with climatic adjustment, and individual manifold porting system (below) provide for improved atomization and fuel distribution



durability. Cab is rubber-mounted and of floating ride construction. Hood, radiator and fenders are virtually an integral part of cab assembly providing extra strength and life to sheet metal. Federal's swing-lift fenders are designed to lift up and lock out of the way in a moment for quick accessibility to engine, accessories, steering, front brakes, etc. Elimination of fender obstruction and large side-lift hood permits mechanics to get at any job faster and easier.

Hypoid gear axles and radius rod drive are standard on all models with a choice of single-speed, 2-speed double reduction and double reduction rear axles available. Units have 5-speed direct drive transmission with overdrive transmission optional.

'51 DIRECTORY COMMENT

While most directories *look* alike, it is their contents that count. It will come as a surprise to many to know that thousands of companies have moved and hundreds have entered the field since last year's issue went to press. That's why our staff has been busy throughout the year, keeping material up-to-date, so that this issue may serve you well throughout the months ahead.

The product directory can save you time in locating sources for almost any automotive item. It can also serve as a guide to products available and as a check list of items that might be profitable in your shop.

The association directory, beginning on page 83, is also a valuable feature of this reference issue.

WHO IS INCLUDED

To keep the product directory within workable limits, it has been limited, generally, to *manufacturers* who distribute on a national scale. Names of local distributors can usually be obtained by writing direct to the manufacturers.

It should be remembered that most vehicle manufacturers stock a complete line of parts for their vehicles. Obviously it would be impossible to list all of them under each product heading.

HOW TO USE

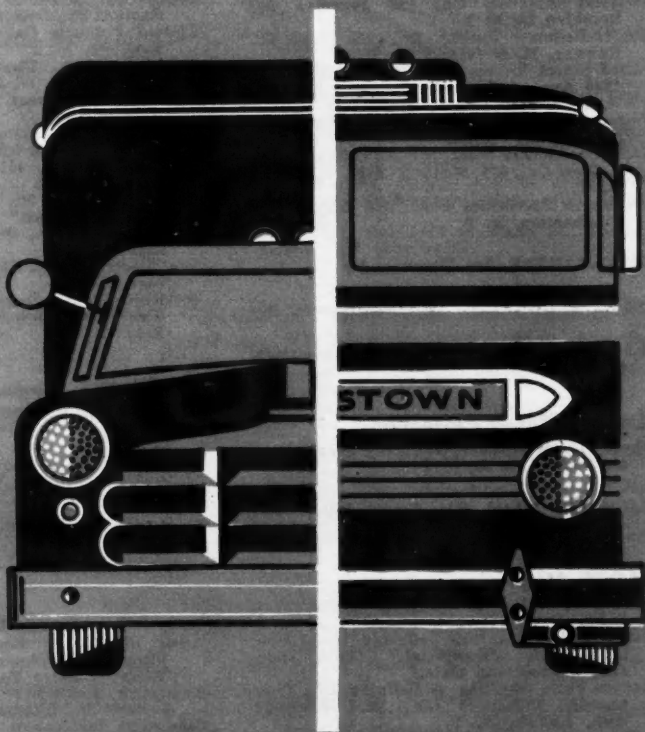
In general, products are listed under the noun (i.e., CHARGERS, Battery). In a few special cases where the words are compounded (i.e., SPARK PLUGS), the complete name is listed. Hundreds of cross references will help. For a few last minute changes, see additions at end of listing. If you can't find what you want, the editors will welcome your inquiries.

CONSULT ADVERTISEMENTS

In fairness to all, no partiality has been shown to advertisers. But it is obvious that more information about many products listed can be obtained by referring to advertisements in this issue (index at back of book). Complete details on any product can be had by using the post card inserted at page 50.

ccj COMMERCIAL CAR JOURNAL'S

Annual BUYERS' DIRECTORY Number for Fleet Operators



ABRASIVES (Cloth and Paper)—See SAND PAPER**ABSORBENTS, Oil and Grease (Floor)**

Floor-Dry Co., 2314 Wycliff St., St. Paul 4, Minn.
 Normandy Chemical Corp., Ninth & Western Sts., Muskegon, Mich. "Saif & Oil Master."
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Oil-Dri Corp., 520 N. Michigan Ave., Chicago, Ill.
 Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Kwikorb."
 Speedi-Dri Corp., 210 W. Washington Square, Philadelphia 5, Pa.
 Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa. "Sol-Speedi-Dri."
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich. "Wyandotte Zorball."

ACCELEROMETERS

Tapley Products Corp., 53 Park Pl., N. Y. 7, N. Y. (Importers)
 Vibration Specialty Co., 1534 Vine St., Philadelphia 2, Pa.

ACETYLENE, See Gas, Acetylene**ADJUSTERS, Tire Chain**

American Chain Div. of American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Weed."
 Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
 Campbell Chain Co., York, Pa.
 Crown Products Co., Ralston, Neb.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
 Grayson Tool Co., 1412 W. 2nd St., Hastings, Nebr.
 Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
 McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
 Nauman Mfg. Co., R.F., 525 Michigan Ave., Buffalo 3, N. Y. "Naco."
 Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
 Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Superior."
 Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
 St. Pierre Chain Corp., Frank St., Worcester, Mass.
 Sal-Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
 Tingley-Reliance Rubber Co., 903 Ross St., Rahway, N. J. "C.O.T."
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Western Chain Co., 1807 Belmont Ave., Chicago 18, Ill. "Wesco."
 Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Co., 575 Madison Ave., N. Y. 22, N. Y.
 Woodworth Specialties Corp., 182 Broad Ave., Binghamton, N. Y.

AIR CLEANERS, See Cleaners, Air**AIR COMPRESSORS, See Compressors, Air****ALARMS, Carbon Monoxide, See Indicators, Carbon Monoxide****ALARMS, Cargo Protection**

Babaco Alarm Systems, Inc., 723 Washington St., New York 14, N. Y.

ALIGNERS, Wheel, See Gages, Wheel and Axle Aligning**ALLOYS, Magnesium**

Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.
 Dow Chemical Co., 919 Jefferson Ave., Midland, Mich. "Downmetal." (Bars, rods, shapes, sheet and plate.)
 Niagara Falls Smelting & Refining Div. Continental Industries Inc., 2204 Elmwood Ave., Buffalo, N. Y.
 Wellman Bronze & Aluminum Co., 2506 E. 93rd St., Cleveland 4, Ohio.

ALUMINUM (Sheet, Rod, Ingot and Shapes)

Ajax Metal Div. of H. Kramer & Co., 46 Richmond St., Philadelphia 23, Pa. (Ingot.)
 Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa."
 American Nickeloid Co., Peru, Ill. (Nickel and chrome plated aluminum, in sheets.)
 Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. (Ingot.)
 Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Rod and ingot.)
 Cleveland Electro Metals Co., 2591 W. 38th St., Cleveland 18, Ohio. "Cemco." (Shot, ingot and shapes.)
 Fairmont Aluminum Co., Fairmont, W. Va. "Falco." (Sheet, coil and circles.)
 Hamden Smelting Co., State & Edmund Sts., New Haven, Conn. "USA." (Ingot.)
 North American Smelting Co., Marine Terminal, Wilmington, Del. (Ingot and shot.)
 Kaiser Aluminum & Chemical Corp., 1924 Broadway, Oakland 12, Calif. (Sheet, plate, coils, circles, billets, pig, ingot, rod, bar and wire)
 Reynolds Metals Co., 2500 S. Third St., Louisville 1, Ky.
 U. S. Reduction Co., Melville & Chicago Aves., East Chicago, Ind. "Usco." (Ingot.)

AMMETERS, Instrument Board

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
 Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
 King-Seely Corp., 315 S. First St., Ann Arbor, Mich. "K-S Telegraph."
 Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
 Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
 Stewart-Warner Corp. Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
 United States Gauge Div. of American Machine and Metals, Inc., Sellersville, Pa.
 Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

ANALYZERS, Combustion

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
 Bennett-Feragen Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
 Cambridge Instrument Co., Inc., 3001 Grand Central Terminal Bldg., N. Y. 17, N. Y.
 Commercial Research Laboratories, Inc., 16 Bartlett St., Detroit 3, Mich.
 Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Mixture Master."
 Engelhard, Inc., Charles, 900 LaSalle Ave., East Newark, N. J. "Exhaustalyzer."
 Gow-Mac Instrument Co., 22 Lawrence St., Newark 5, N. J.
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 Permutit Co., 330 W. 42nd St., New York 18, N. Y. "Ranarex."
 Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio.
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 Weidenhoff, Inc., Joseph, Algona, Iowa (Sole distributors, Bowser Inc., Fort Wayne 2, Ind.)

ANALYZERS, (Engine and Electrical Equipment)

Actane Chemical Co., Philadelphia 8, Pa.
 Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Motor Tuner," "Motor Tester."
 Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
 Cambridge Instrument Co., Inc., Ossining-on-Hudson, N. Y. (Engine indicators, exhaust gas testers.)

Gale Hall Engrg., Inc., 107 Northampton St., Boston 18. "Checkometer."
 Hygrade Products Co., 35-35 35th St., Long Island City, N. Y. "Vac-O-Scope."
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 Mack Products Co., 15 Putnam St., Winthrop, Mass.
 Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributor, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
 Weidenhoff, Inc., Joseph, Algona, Iowa (Sole distributors, Bowser Inc., Fort Wayne 2, Ind.)

ANTI-FREEZE, Cooling System

Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa. "Cleanola."
 Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Flare."
 Cliffs Dow Chemical Co., Wright St., Marquette, Mich. "Sentinel."
 Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Ajax," "Frost Check," "Peak," "Plus," "Norway."
 duPont de Nemours & Co., E. I., Polychemical Dept., Zerone & Zerex Anti-Freeze Section, Wilmington 98, Del. "Zerone," "Zerex."
 Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y. "Esso," "Atlas Perma-guard."
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Mirrolite Mfg. Co., 36th St. & Queens Blvd., Long Island City 1, N. Y. "Never-Freeze."
 Monsanto Chemical Co., Merrimac Div., Everett Station, Boston 19, Mass. "Eskimo."
 National Carbon Div. Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. "Prestone," "Trek."
 Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y. "Compas."
 Randall Products Mfg. Co., 100 N. Moore St., New York 18, N. Y. "Rand-Zone."
 Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
 Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Freezone."
 Speco, Inc., 7808 Associate Ave., Cleveland 9, Ohio. "Speco," "Freezer," "Freez-Ram."
 United Distillers of America, Inc., 350 Fifth Ave., New York 1, N. Y. "Safe-Tee."
 U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y. "Super-Pyro."
 V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

ANTI-FREEZE, Gasoline Line

Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
 Casite Div. Hastings Mfg. Co., Hastings, Mich. "Drout."
 Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Norway Dry-Ex."
 Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. "Cristy Drygas."
 Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
 duPont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, Wilmington 98, Del. "Gas Guard."
 Fidelity Mfg. Co., Front & Bridge Sts., Catsaqua, Pa. "Alrite," "Fidelity."
 Glisten Co., 13 Barnard St., Hilldale, Mich. Heet Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whis Zorbit."
 Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. "M-K Startrite."
 Pennsylvania Refining Co., Gumout Div., 2686 Lisbon Rd., Cleveland 4, Ohio. "Penn Drake."
 Porte Mfg. Co., 3178 Atlantic Ave., Brooklyn 8, N. Y. "Gasec."
 Radiator Specialty Co., 1700 Dowd Rd., Charlotte 1, N. C.
 Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md. "De-Icer."
 Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Aqua-Ex."
 Winkenweder & Ladd, Inc., 1421 S. Michigan Ave., Chicago 5, Ill. "Start."

ARMATURES

American Generator & Armature Co., 2614 W. 48th St., Chicago 32, Ill.
 Arrow Armatures Co., 15 Fordham Rd., Boston 39, Mass. (Rewinds.)
 Carly Electric & Armature Service, Inc., 1608 14th St., N. W., Washington, D. C.
 General Armature & Mfg. Co., Mill Hall, Pa.

ARBOR PRESSES, See Presses, Arbor

ARMS, Breaker

Niehoff & Co., C. E. 4925 W. Lawrence Ave., Chicago 30, Ill.
 Shurhit Products, Inc., Waukegan, Ill.
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
 Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

AXLE STRAIGHTENERS, See Straighteners, Axle. (Also Gages, Wheel and Axle Aligning.)

AXLE SHAFTS

Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
 Detroit Devel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
 Dittmer Gear Mfg. Corp., 193 Grand St., Lockport, N. Y.
 International Parts Corp., 11th & State Sts., Chicago 5, Ill.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
 Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
 Spencer Mfg. Co., Spencer, Ohio.
 Steel and Tubes, Inc., 224 E. 131st St., Cleveland, Ohio.
 U. S. Axle Co., Inc., Water St., Pottstown, Pa.
 Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.
 York Electric & Machine Co., Loucks Mill Rd., York, Pa. "Bilt-Well"; "Foreman" (Sole distributors, Foreman, Inc., 630 Loucks Mill Rd., York, Pa.)

AXLE SUSPENSION UNITS, for Trailers

Callahan Engrg. Co., 1100 Mateo St., Los Angeles 21, Calif.
 Edwards Trailer & Body Co., Div. of Edwards Iron Works, Inc., 2901 S. Main St., South Bend 25, Ind.
 Fayette Mfg. Co., Fayette, Ohio.
 Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Rockford Station) Detroit 19, Mich.
 Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
 Hendrick Mfg. Co., W. Cedar St., Poughkeepsie, N. Y.
 Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons (Chicago suburb), Ill. "Hendrickson Tandem."
 Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
 Kingham Trailer Co., Inc., 15th & Hill Sts., Louisville, Ky.
 Neway Equipment Co., 2425 Henry St., Box 425, Muskegon, Mich. (Tandem unit.)
 Pointer-Williamette Co., P. O. Box 368, Edmonds, Wash. (Sole distributors, Feather Ride, Inc., 238 N. E. Oregon St., Portland 14, Ore.)
 Reynolds Mfg. Co., 600 Prospect Ave., Springfield, Mo. "Reyco Tandem."
 Shamrock Trailers & Axle Mfg. Co., 18447 Schaefer St., Detroit, Mich.
 Shuler Axle Co., 2901 S. 2nd St., Louisville 8, Ky.
 Six Wheels, Inc., 1550 E. 20th St., Los Angeles 11, Calif. "Maxi."
 Springfield Body & Trailer Co., 1631 College St., Springfield, Mo. "Frazier."
 Standard Forge & Axle Co., Hunter Sta., Montgomery 2, Ala. (Licensee.)
 Steel Products Co., Inc., Box 1007, Savannah, Ga. "Great Dane."
 Trailmobile Co., 31st & Robertson Ave., Cincinnati 9, Ohio.
 Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Gravity Springs."
 Trucktor Corp., 156 Wilson Ave., Newark 5, N. J.
 Union Metal Mfg. Co., 1432 Maple Ave., N. E., Canton 5, Ohio. "Hoobler." (Self-steering undercarriage.)
 Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif. (Licensee.)

AXLE UNITS, Third, for Trucks

Callahan Engineering Co., 1100 Mateo St., Los Angeles 21, Calif.
 Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 65, Calif. (Chain drive.)
 Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 18, Mich. "Thornton Four-Rear Wheel Drive." (Four wheel drive; also "Load Booster.")
 F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif. "Fabco."
 Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Rockford Station) Detroit 19, Mich.
 Hendrick Mfg. Co., W. Cedar St., Poughkeepsie, N. Y. "Guilder."
 Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
 Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill.
 Neway Equipment Co., 2425 Henry St., Box 425, Muskegon, Mich.
 Six Wheels Inc., 1550 E. 20th St., Los Angeles 11, Calif. "Maxi."
 Springfield Body & Trailer Co., 1631 College St., Springfield, Mo. "Frazier."
 Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 12, Calif. (Also four-wheel chain drives.)
 Thornton Four-Rear Wheel Drive—See Detroit Automotive Products Corp.
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich.
 Transportation Construction Corp., 39 Hinds St., Seattle 4, Wash. "TCC" (Chain drive for off-the-highway service.)
 Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Gravity Springs," also "Truxmore." (Sole distributors, Truckstell, Inc., Union Commerce Bldg., Cleveland, Ohio.)
 Trucktor Corp., 156 Wilson Ave., Newark 5, N. J. (Also chain and sprocket drive.)
 Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
 Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Calif.

AXLES, Front

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
 Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio. (Truck.)
 Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)

AXLES, Front Drive

American-Coleman Co., The, Omaha, Neb. (For conversions.)
 Marmon-Herrington Co., 1611 W. Washington St., Indianapolis 7, Ind. (For Ford conversions.)
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Rear

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
 Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 65, Cal.
 Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
 Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill. (Wheel reduction.)
 Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer-Salisbury."
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Rear (Two Speed)

Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Trailer

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y. (House.)
 Dorsey Trailers, Inc., Elba, Ala.
 Fayette Mfg. Co., Fayette, Ohio.
 Hammer Blow Tool Co., 602½ Third St., Wausau, Wis. "Torq-less."
 Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Rockford Station) Detroit 19, Mich.
 Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif. (Truck.)
 Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
 Liggett Spring & Axle Co., Monongahela, Pa.
 Shamrock Trailers & Axle Mfg. Co., 18447 Schaefer St., Detroit, Mich.
 Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
 Spencer Mfg. Co., Spencer, Ohio.
 Spencer-Spafford Loadcraft, Inc., Augusta, Kans.
 Springfield Body & Trailer Co., 1631 College St., Springfield, Ohio. "Frazier."
 Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala.
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich.
 Trucktor Corp., 156 Wilson Ave., Newark 5, N. J.
 United Mfg. Co., 30 Interstate St., Bedford, Ohio. "Caravan."

BABBITT METALS

(See also Bearings and Bushings, Die Cast, Babbitt, etc.)
 Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

BABBITTING MACHINES, See Machines, Babbitting

BALANCERS, Wheel

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. "Visubalancer." "John Bean."
 Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
 Bee-Line Co., Box 569, Davenport, Iowa.
 Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
 Gibbs Div., Geo. W. Borg Corp., Delavan, Wis. "Borg."
 Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
 Lambert Products, Inc., 518 Hunter Ave., Dayton, Ohio. "Balastat."
 Lemco Products, Inc., 5490 Dunham Road, Bedford, Ohio. "Vibrascope."
 Manbee Equip Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. (Static.)
 Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
 Stephenson Foundry & Mfg. Co., 648 E. Fort St., Detroit 26, Mich. "Step-Draulic." (Static and dynamic.)
 Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago, Ill. (Electronic.)
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Dynamic.)

BARS, Towing (One Man Type)

Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Wayne."
 Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
 Eagle Mfg. Co., Appleton, Wis.
 Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Pilot Mfg. Co., Battle Creek, Mich. "Tow Guide."
 Wood-Williams-Copp Mfg. Co., 5239 N. Michigan Ave., Ypsilanti, Mich. "Red Arrow."

BATTERIES, Dry

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
 Bright Star Battery Co., 200 Crooks Ave., Clifton, N. J.
 Burgess Battery Co., Freeport, Ill.
 General Dry Batteries, Inc., 131000 Athens Ave., W. Cleveland, Ohio.
 Grant Storage Battery Co., 226 N. Second St., Minneapolis, Minn.

BATTERIES, Dry—continued

National Carbon Div., Union Carbide & Carbon Corp., 80 E. 42nd St., New York 17, N. Y. "Everready."
Olin Industries, Inc., Electrical Div., 275 Winchester Ave., New Haven 4, Conn. "Olin."
Ray-O-Vac Co., 212 E. Washington St., Madison 3, Wis.
Underwood Battery Co., 1250 Ontario St., Cleveland, Ohio. (Flashlight.)
Western Cable Battery Co., 395 Sibley St., St. Paul 1, Minn.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Winchester Repeating Arms Co., Div. of Olin Industries, Inc., 275 Winchester Ave., New Haven 4, Conn.

BATTERIES, Storage

American Battery Co., 1520 McGavock St., Nashville 3, Tenn.
Am-Plus Storage Battery Co., 429 W. Superior St., Chicago 10, Ill.
Atlantic Battery Co., 89 Prentiss St., Boston 20, Mass.
Auto-Lite Battery Corp. (Sub. of Electric Auto-Lite Co.), Toledo 1, Ohio.
Bowers Battery & Spark Plug Co., Reading, Pa.
C & D Batteries, Inc., Conshohocken, Pa.
Crescent Battery & Light Co., 819 Magazine St., New Orleans 12, La.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Battery Mfg. Co., Winston Salem, N. C.
Ebert-Allen Battery Co., 2225 Main St., Joplin, Mo. "Cargo," "Major."
Edison, Inc., Thomas A., Automotive Div., West Orange, N. J.
Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa. "Exide."
The Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron 17, Ohio.
Geidel Battery Mfg. Co., 8393 Bigelow Blvd., Pittsburgh 19, Pa.
General Lead Batteries Co., 196 W. Railway Ave., Paterson, N. J. "Titan," "Durex."
Gibbs Battery Co., Corydon, Iowa. "Gibbs," "G-B."
Gill Electric Mfg. Corp., 201 E. Citrus Ave., Redlands, Cal.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Glasstex."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. "YKL," "Pow'R Sav'R-T.M.s."
Gould-National Batteries, Inc., First Nat'l Bank Bldg., St. Paul 1, Minn. "Kath-anode."
Grant Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
Great Northern Battery Co., 130 W. Pittsburgh Ave., Milwaukee 4, Wis.
Hobbs Battery Co., 1000 42nd St., Oakland, Calif. "Gold-Seal," "Hobbs," "Triple A."
Kelly-Springfield Tire Co., Cumberland, Md.
Laher Battery Products Corp., 2615 Magnolia St., Oakland, Cal.
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Lyons Storage Battery Co., Hamburg, Pa.
Marlatt Battery & Mfg. Co., 1112 Industrial Ave., Danville, Ill.
Monark Battery Co., 6501 W. Grand Ave., Chicago, Ill. "Combat," "Interstate," "Invader," "Monark," "Majestic."
Multnomah Battery Mfg. Co., 1901 N. W. Wilson St., Portland 9, Ore.
Patterson Corp., 437 Park Ave., N.W., New Philadelphia, Ohio. "Bowers," "Penn."
Pennsylvania Rubber Co., P. O. Box 377, Mansfield, Ohio.
Perrine Quality Products Corp., 55 Rumford Ave., Waltham, Mass. "Perrine Polar Bear."
Perry Batteries, 3102 Corunna Road, Flint 3, Mich.
Prest-O-Lite Battery Co., Toledo 1, Ohio.
Price Battery Corp., Hamburg, Pa. "Thor."
Prime Battery Mfg. Co., 2001 W. 8th St., Anderson, Ind.
Reading Batteries, Inc., Box 916, Reading, Pa. "Rebat."
Red Diamond Battery Mfg. Co., 1415 N. Adams St., Peoria 3, Ill.
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Marathon," "Packard," "Reliance."
Solar Corp., 1000 W. Bruce St., Milwaukee 4, Wis.
Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex. "Reliable," "Star," "Stelco," "Ful-O-Pep," "Comet."

Surette Storage Battery Co., Jefferson Ave., Salem, Mass.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Battery Co., 3410 S. La Salle St., Chicago 16, Ill. "Universal," "Coliseum."
Volta Battery Corp., 1000 E. 37th St., Chicago 19, Ill.
Western Cable Battery Co., 395 Sibley St., St. Paul 1, Minn. "Cable."
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis. "Wisco."
Witherbee Storage Battery Co., Hamburg, Pa.

BATTERY CHARGERS, See Chargers, Battery.

BEARINGS, Ball

Aetna Ball & Roller Bearing Co., 4600 Schubert Ave., Chicago 32, Ill. (Thrust and angular contact.)
Ahlberg Bearing Co., 3025 W. 47th St., Chicago 32, Ill.
American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn. "B&RB."
Bearings Co. of America, 501 Harrisburg Ave., Lancaster, Pa. "BCA."
Bearings Industry Co., 311 W. 56th St., New York 19, N. Y. ("BIC"; "R & M." [Imported].)
Burgess-Norton Mfg. Co., 731 Peyton St., Geneva, Ill. (Assemblies.)
Chefford Master Mfg. Co., Fairfield, Ill. "CMF," "Lubro-Life."
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J. "SRO."
Fafnir Bearing Co., 37 Booth St., New Britain, Conn.
Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y.
Green Ball Bearing Co., 1965 E. 66th St., Cleveland 8, Ohio.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.
Hoover Ball & Bearing Co., Ann Arbor, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Kaydon Engineering Corp., Muskegon, Mich.
L & S Bearing Co., 1015 N. Broadway, Oklahoma City, Okla.
McGill Mfg. Co., 259 Indiana Ave., Valparaiso, Ind.
Majestic Bearing Co., 2515 S. Wabash Ave., Chicago 16, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Marlin-Rockwell Corp., 402 Chandler St., Jamestown, N. Y. "M-R-C." (Sole distributors to replacement trade, M-R-C Bearings Service Co., Jamestown, N. Y.)
Matthews Mfg. Co., 104 Gold St., Worcester 3, Mass. (Unground.)
New Departure Div. General Motors Corp., Bristol, Conn. (Steel.)
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Norma-Hoffmann Bearings Corp., Hamilton Ave., Stamford, Conn.
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo."
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill. "Sealmaster."
Thomson Industries, Inc., 1029 Plandome Rd., Manhasset, N. Y.

BEARINGS, Clutch Throwout

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Aetna Ball & Roller Bearings Co., 4600 Schubert Ave., Chicago 32, Ill. (Ball; sole distributors to replacement trade, Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.)
Andrew-Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill. "A.T.B."
Bearings Co. of America, 501 Harrisburg Ave., Lancaster, Pa. "BCA."
Chefford Master Mfg. Co., Fairfield, Ill. "Lubro-Life."
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Green Ball Bearing Co., 1965 E. 66th St., Cleveland 8, Ohio.

L & S Bearing Co., 1015 N. Broadway, Oklahoma City, Okla.
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Perfection Gear Co., 162nd St. & Viscenas Ave., Harvey, Ill.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa. "Purebon."
Randall Graphite Bearings, Inc., Greenlaum & Lake Sts., Lima, Ohio. (For Chevrolet, Pontiac and Oldsmobile cars.)
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
Wohler Corp., 700 E. Grano River Ave., Lansing 6, Mich.

BEARING LEAK DETECTORS, See Testers, Bearing Wear

BEARINGS, Needle

Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Torrington Co., 56 Field St., Torrington, Conn.

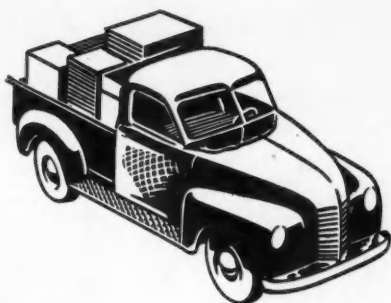
BEARINGS, Roller



Aetna Ball & Roller Bearing Co., 4600 Schubert Ave., Chicago 32, Ill.
American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn. "B&RB."
Bearings Industry Co., 311 W. 56th St., New York 19, N. Y. ("BIC"; "R & M." [Imported].)
Bower Roller Bearing Co., Hart & Goethe Aves., Detroit 14, Mich. (Distributors to replacement trade, Federal Mogul Service Div., Detroit 13, Mich.)
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J. "SRO."
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.
Hyatt Bearings Div., General Motors Corp., Harrison, N. J.
Industrial Engineering Co., Island Rd. & Suffolk Ave., Philadelphia 42, Pa.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Kaydon Engineering Corp., Muskegon, Mich.
McGill Mfg. Co., 259 Indiana Ave., Valparaiso, Ind.
Majestic Bearing Co., 2515 S. Wabash Ave., Chicago 16, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Norma-Hoffmann Bearing Corp., Hamilton Ave., Stamford, Conn.
Orange Roller Bearing Co., 557 Main St., Orange, N. J.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo."
Roller Bearing Co. of America, Whitehead Rd., Trenton, N. J. "20th Century," "RBC," "Cyclops."
Rollway Bearing Co., 541 Seymour St., Syracuse, N. Y.
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
Timken Roller Bearing Co., 1885 Duerber Ave., S. W., Canton 6, Ohio.
Torrington Co., 56 Field St., Torrington, Conn.
Tyson Bearing Corp., Oberlin & Thomas Aves., Massillon, Ohio.

BEARINGS and BUSHINGS, Bronze-Backed

American Bearing Corp., 429 S. Harding St., Indianapolis, Ind.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Bohnalite."
Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland, Ohio.
Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.
Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio.
Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)
Federal-Mogul Corp., Western Mfg. Div., 250-14th St., San Francisco, Calif. "F.M."



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Canadian Sales: Bendix-Eclipse of Canada, Ltd., Windsor, Ontario, Canada • Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, N. Y.

COMMERCIAL CAR JOURNAL, November, 1951

BEARINGS & BUSHINGS, Bronze Backed
—continued

Johnson Bronze Co., 510 S. Mill St., New Castle, Pa.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles 63, Calif. "Moroloy."
National Formetal Div., Federal-Mogul Corp., 6540 Metta Ave., Cleveland 14, Ohio. "Formetal."
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., San Francisco, Calif. (Babbitt lined.)
Randall Graphite Bearings, Inc., Greenlaum & Lake Sts., Lima, Ohio. (Bearings.)

BEARINGS and BUSHINGS, Die Cast, Babbitt, etc.

Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth." (Bearings.)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Calif. "F.M."
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay, Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis, Ind.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles 63, Calif. "Moroloy."
National Molded Products, Inc., 40 S. St. Marys St., St. Marys, Pa. "Tubeloy." (Bearings.)
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., San Francisco, Calif.

BEARINGS and BUSHINGS, Self-Aligning

National Molded Products, Inc., 40-42 S. St. Marys St., St. Marys, Pa. (Bearings.)
Orange Roller Bearing Co., 557 Main St., Orange, N. J.

BEARINGS and BUSHINGS, Steel-Backed

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum lined, semi-finished.)
American Bearing Corp., 429 S. Harding St., Indianapolis, Ind. (Babbitt lined.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Bohnalite."
Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio. "Clevite 77," "Bimetal," "Trimetal."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth." (Bearings.)
Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)
Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif. (Babbitt lined bearings.)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Calif. "F.M."
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles 63, Calif. "Moroloy."
National Formetal Div., Federal-Mogul Corp., 6540 Metta Ave., Cleveland 14, Ohio. "Formetal."
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., San Francisco, Calif. (Babbitt lined.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Bearings.)
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Engine bearings.)

BELTS, FAN

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."

Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 2, Tex. (Sole distributors, Monkey Grip Sales Co., 5320 Harry Hines Blvd., Dallas 2, Tex.)
Boston Woven Hose & Rubber Co., P. O. Box 101, Boston 3, Mass. "Bull Dog."
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Crown Products Co., Ralston, Neb.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts., (Tacony), Philadelphia 35, Pa.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Longlife."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Holfast Rubber Co., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Hope Webbing Co., Providence, R. I.
Kelly-Springfield Tire Co., Cumberland, Md.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper," "Miracle."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

BENCH DRILLS, See Drill Presses

BENDERS, Tube

Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco."
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Greenlee Bros. & Co., 2100 12th St., Rockford, Ill.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Leonard Precision Products Co., Garden Grove, Calif. "Leonard-Douglas."
Lidsean, Inc., Gustave, 832 S. Central Ave., Chicago, Ill. "Chicago." (Hand, portable.)
Logansport Machine Co., Center Ave., Logansport, Ind.
O'Neill-Irvin Mfg. Co., Lake City, Minn. "Di-Arco."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Republic Mfg. Co., 1930 W. 77 St., Cleveland 2, Ohio. (Hand and bench.)
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

BINDERS, See Lead Holders**BINS, Parts Storage**

Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipo."
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Cal.
Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Borroughs Mfg. Co., 3002 N. Burdick St., Kalamazoo, Mich. "Flexi-Bins."
De Luxe Metal Furniture Co., Struthers St., Warren, Pa.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. "Add-A-Bin."
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."

Fort Steuben Metal Products Co., Follansbee, W. Va.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "F G M." (Steel or aluminum.)
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Hope Metal Products Co., 1505 Rockwell Ave., Cleveland 14, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Manufacturing Equip. & Eng. Co., 553 Waverly St., Framingham, Mass. "Meeco."
Neiman Steel Equipment Co., 106 N. Third St., Philadelphia 6, Pa.
Red Tiger Products, Inc., 20 N. Wacker Drive, Chicago 6, Ill.
Renie Metal Products Corp., 807 Bowman St., Mansfield, Ohio. "Remco," "Rempco."
Standard Steel Equipment Co., 117-20 14th Rd., College Point, L. I., N. Y. "Stansteel."

BLADES, Saw (Band)

American Saw & Mfg. Co., 67 Boylston St., Springfield, Mass. "Lenox."
Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind. "Silver Steel."
Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.
Diamond Saw Works, Inc., 260 Court St., Buffalo 2, N. Y. "Sterling."
Diston & Sons, Henry, Tacony, Philadelphia 35, Pa.
DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
Foster Mfg. Co., 237 Delaware Ave., Buffalo 2, N. Y.
Griffin Co., G. W., 93 Memorial St., Franklin, N. H. (Sole distributors, John H. Graham & Co., 105 Duane St., New York 8, N. Y.)
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
Millers Falls Co., Greenfield, Mass. "Universal."
Napier Saw Works, 22 Cottage St., Middletown, N. Y. "Quality."
Ohlen-Bishop Mfg. Co., 1314 Kinnear Rd., Columbus 11, Ohio.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Sparton Saw Works, Inc., 152 Fisk Ave., Springfield 7, Mass.
Victor Saw Works, 22 Cottage St., Middletown, N. Y.

BLADES, Saw (Circular)

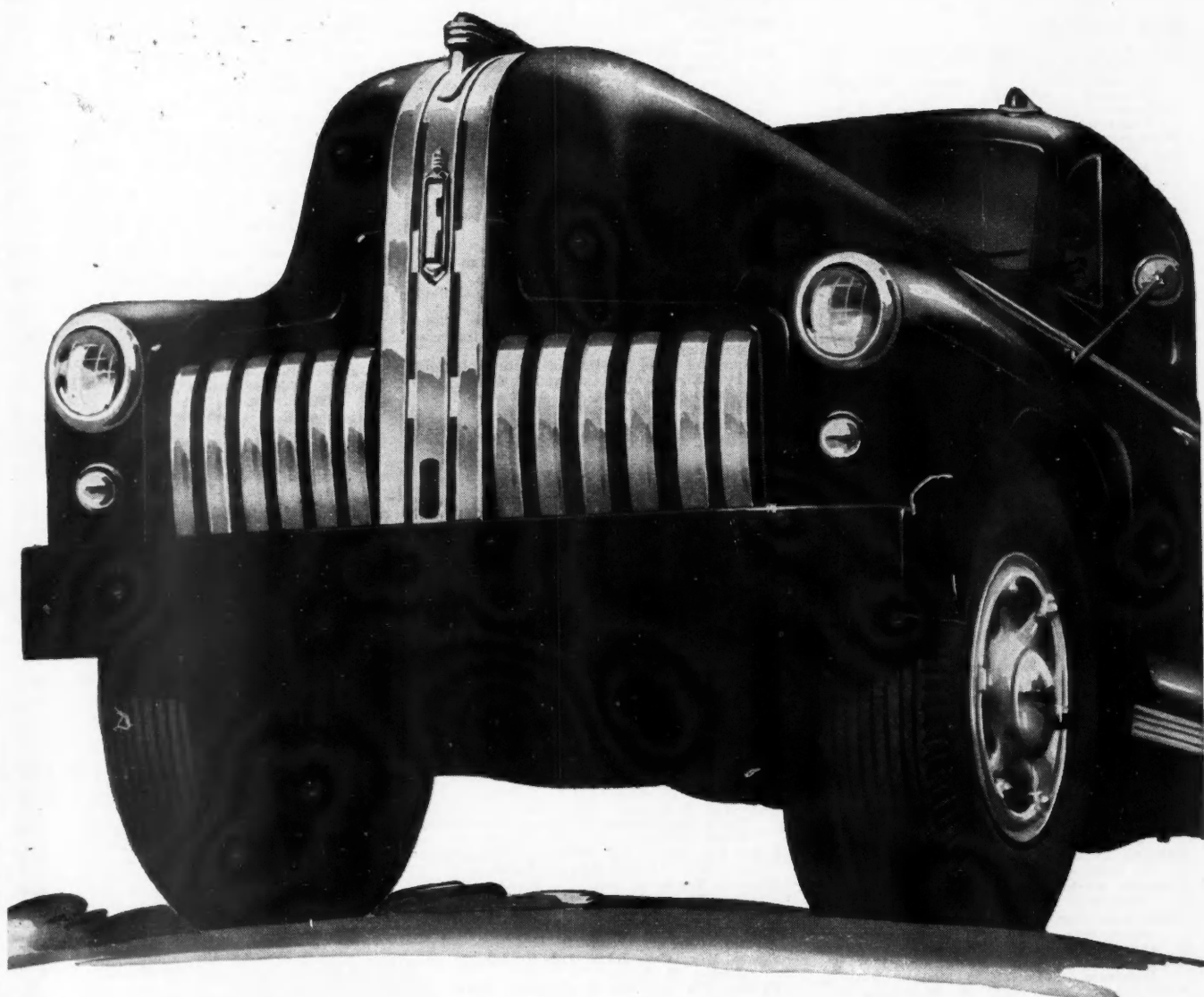
Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind. "Silver Steel."
Chicago Saw Works, Inc., 5036 Wentworth Ave., Chicago 9, Ill.
Circular Tool Co., 765 Allens Ave., Providence, R. I. "Circle R."
Cowles Tool Co., 2086 W. 110th St., Cleveland, Ohio.
Diston & Sons, Henry, Tacony, Philadelphia 35, Pa.
Foster Mfg. Co., 237 Delaware Ave., Buffalo 2, N. Y.
Goddard & Goddard Co., 12230 Burt Rd., Detroit 23, Mich.
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
National Tool Co., W. 112th St. & Madison Ave., Cleveland 2, Ohio. "National-Cleveland."
Ohlen-Bishop Mfg. Co., 1314 Kinnear Rd., Columbus 11, Ohio.
Retool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.
Simmonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Standard Tool Co., 3950 Chester St., Cleveland 14, Ohio. "Shield Brand."
Wiley's Carbide Tool Co., 1840 W. Vernor Highway, Detroit 1, Mich.

BLEEDERS, Hydraulic Brake

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
Eis Automotive Corp., Middletown, Conn.
Farback Chemical Co., Chase & Duane Sts., Cincinnati 23, Ohio. "Hy-Bra-Flow."
Gray Co., 60 11th Ave., N.E., Minneapolis 13, Minn. "Graco Gun-Fil."
Grigg Specialty Tools, 7523 Santa Fe Ave., Huntington Park, Calif.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Servwell Products Co., 6519 Euclid Ave., Cleveland 8, Ohio.

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Supco Products Corp., S. Bayview Ave., Amityville, L. I. N. Y.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
 Wilco Products, Inc., 595 Valley St., Orange, N. J.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

BLOCKS (For Cranes & Derricks)—See Cranes, Crawler & Truck Mounted

BLUE, Mechanics'

Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Flare."
 Durkee-Atwood Co., 215 Seventh St., N.E., Minneapolis 13, Minn.
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
 Permatex Co., 1720 Ave. Y., Brooklyn 29, N. Y.
 Van Cleef Bros., Inc., 7800 So. Woodlawn Ave., Chicago 19, Ill. "Dutch Brand."

BODIES, Ambulance and Funeral

Eureka Co., 312 W. First St., Rock Falls, Ill.
 Franklin Body & Equipment Corp., 616 Franklin Ave., Brooklyn, N. Y.
 Hesse & Eisenhardt Co., Blue Ash Ave., Rossmore, Ohio.
 Meteor Motor Car Co., 125 Clark Ave., Piqua, Ohio.
 Miller Co., A. J., Bellefontaine, Ohio.
 National Body Mfg. Co., Knightstown, Ind.
 Roehlk Spring and Body Co., 417 S. 15th St., St. Louis 3, Mo.
 Shop of Siebert, 614 Southard Ave., Toledo, 2, Ohio.
 Stewart Truck Bodies, Inc., 1785 E. New York Ave., Brooklyn 7, N. Y. (Ambulance and hearse.)
 Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio.

BODIES, Commercial

All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill.
 Aluminum Body Corp., 4601 S. Soto St., Vernon 11, Calif.
 American Body & Equipment Co., 1411 Charlotte St., Kansas City 6, Mo.
 American Body & Equipment Co., P. O. Box 3107, Dallas 1, Tex.
 American Body & Trailer, Inc., P. O. Box 1150, Oklahoma City 1, Okla.
 American Coach & Body Co. See McCabe-Powers.
 American Fire Apparatus Co., 44 E. Hall St., Battle Creek 10, Mich. (Fire apparatus.)
 American Truck & Body Co., Martinsville, Va. "Pack-Haulers."
 Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.
 Arkansas Machine Specialty Co., Hope, Ark. (Bottlers'.)
 Armstrong-Johnson Mfg. Co., 97 N. Washington Ave., Columbus 15, Ohio. (Van; also "Met-L-Wood" (licensees).)
 Ashton Power Wrecker Equip. Co., 1701 W. Lafayette St., Detroit 16, Mich.
 Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa. "Berger."
 Atlas Body Works, 147 McKinley Ave., Bridgeport 6, Conn.
 Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis. "Pierce."
 Auto Truck Equipment Co., 7501 Penn Ave., Pittsburgh 8, Pa. "Ateco."
 Badger Body Mfg. Co., 2719 Cuming St., Omaha, Neb. (Combination grain and stock.)
 Baker Equipment Engrg. Co., Summit & Norfolk Sts., Richmond 11, Va. (Also public utility.)
 Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.
 Baltimore Body Corp., 2253 Kirk Ave., Baltimore, Md.
 Barkow Co., H., 153 N. Milwaukee St., Milwaukee 2, Wis.
 Barry & Bailly Co., 2419 N. 27th St., Philadelphia 32, Pa.
 Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
 Batavia Body Co., 5 W. Wilson St., Batavia, Ill. (Refrigerator.)
 Baxter Co., 1610 W. Michigan Ave., Duluth 2, Minn.

Belgrade Wagon Works, Cambria & Belgrade Sts., Philadelphia 34, Pa.
 Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.
 Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City, N. J. (Refrigerator.)
 Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.
 Bolick Sons Co., Jerome, Conover, N. C.
 Born & Sons, Herman, 219 N. Fremont Ave., Baltimore 1, Md.
 Boyertown Auto Body Works, Inc., Third & Walnut Sts., Boyertown, Pa.
 Brandt, Inc., Charles T., Body Div., 201 N. Haven St., Baltimore 24, Md.
 Brown Equipment & Mfg. Co., 1740 Broadway, New York 19, N. Y.
 Brumbaugh Body Co., 100 Plank Rd., A' toona, Pa.
 Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
 California Body & Trailer Mfrs., 180 12th St., San Francisco 3, Calif.
 Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio.
 Chadwick, Inc., Seventh St. & Keystone Ave., Darby, Pa.
 Chain Belt Co., 4733 W. Greenfield Ave., Milwaukee 14, Wis. "Rex Motor-Mixer," (Ready mixed concrete.)
 Checker Cab Mfg. Corp., 2016 N. Pitcher St., Kalamazoo, Mich.
 Clark Co., B. M., Union, Maine.
 Clayton-Lorenz Co., 4058 W. Chicago Ave., Chicago 51, Ill.
 Cliffside Body Corp., 230 Laird Ave., Cliffside Park, N. J. (Steel.)
 Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio. Utility bodies for line construction.
 Commercial Sales Co. Div. of Cochran & Celli, 1100 Eighth Ave., Oakland 6, Calif.
 Cook & Co., Hazlehurst, Ga. (Armored.)
 Corbitt Co., Henderson, N. C.
 Couse Mfg., Inc., 300 Passaic St., Newark 4, N. J. (Armored.)



Cutler Metal Products Co., 1029 Line St., Camden, N. J.
 DeKalb Commercial Body Co., 229 Garden St., DeKalb, Ill. (Stake, milk delivery and van.)
 Delphi Body Works, 311 S. Washington St., Delphi, Ind. (Also public utility.)
 Dixie Tallyho, Inc., Fairburn, Ga. (Unit which converts truck into station wagon for pickup bodies.)
 Dorsey Trailers, Inc., Elba, Ala.
 Dow Body Co., Henry E., 1600 Chambers St., Trenton 10, N. J.
 Dura-Bilt Body Co., Bldg. No. 8, National Dock, East Boston 28, Mass. (Walk-in and police van.)
 Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. (Utility line construction.)
 Edwards Trailer & Body Co. Div. of Edwards Iron Works, 2901 S. Main St., South Bend 23, Ind.
 Engineering and Research Corp., Riverdale, Md. "Ereco."
 Evans Mfg. Co., John, 108 E. Liberty St., Sumter, S. C.
 Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill. (Public utility.)
 Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Stake and platform.)
 Fly & Harwood, 300 Madison Ave., Memphis 1, Tenn.
 Franklin Auto Body & Equipment Corp., 616 Franklin Ave., Brooklyn, N. Y.
 G & G Mechanical Co., 722 N. Main St., Fort Worth 6, Tex.
 General Body Mfg. Co., 713 W. Pennway, Kansas City, Mo.
 Gentry Body & Trailer Co., N. Fourth St., Chickasha, Okla.
 Gertenslager Co., Wooster, Ohio. (Custom-made.)
 Giant Mfg. Co., 12th Ave. & S. Sixth St., Council Bluffs, Iowa. (Farm and City Stake.)
 Giehner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C. (Glass industry, soft drink, etc.)
 Giffel Body Mfg. Co., 845 Lafayette Ave., Terre Haute, Ind. (Refrigerator.)
 Glasier Body Co., 391 Adams St., Newark 5, N. J.
 Gramm Trailer Corp., First Lima Bldg., Lima, Ohio.

Hackney Bros. Body Co., Goldsboro St., Wilson, N. C. (Refrigerator and dairy.)
 Halsey Machine & Mfg. Co., 131 Arrowhead Ave., San Bernardino, Calif. (Bottling and oil.)
 Hayes Mfg. Corp., 551 Seventh St., N.W., Grand Rapids 2, Mich.
 Hercules-Campbell Body Co., Tarrytown, N. Y.
 Hercules Mfg. Co., 1501 W. Franklin St., Evansville 16, Ind.
 Hercules Steel Products Co., Box 477, Galion, Ohio.
 Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo. (Refrigerator, etc.)
 Hesse Carriage Co., 1720 Cherry St., Kansas City, Mo.
 Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis. (Public utility.)
 Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
 Hoffman Auto Body Service, Inc., 1480 N. Grant Ave., Columbus, Ohio. (Insulated & refrigerated.)
 Holby Body Co., E., 2010 Washington Ave., N., Minneapolis, Minn.
 Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
 Hooper Body Corp., 31 St. & Warwick Ave., Newport News, Va.
 Hoosier Bodies, Inc., P. O. Box 277, Richmond, Ind.
 Hubbard Mfg. Co., Farmland, Ind. (Service car.)
 Hughes-Keenan Corp., Burkett Body Div., Delaware, Ohio.
 Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.
 Jefferson Body Co., 1711-3rd Ave. S., Birmingham 3, Ala.
 Jensen's Body Shop, Phillips, Wis.
 Joplin Body & Trailer Co., 730 E. Fifth St., Joplin, Mo.
 Kammer Body Corp., 150 Beaver St., Jamaica 4, N. Y.
 Kennedy Mfg. Co., 501 N. Monroe St., Stretor, Ill. (Grain, live stock.)
 Kensington Wagon Works, 2756 Frankford Ave., Philadelphia 34, Pa.
 Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.
 Ketter Truck Bodies, Inc., Third & Ellison Ave., Ironton, Ohio. "Markette."
 Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Wis.
 Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
 Keystone Wagon Works, Inc., 5625 Tacony St., Philadelphia 24, Pa. (Refrigerator.)
 Kiley Co., James A., 15 Linwood St., Somerville, Mass. (Public utility.)
 Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky. "Kingham-Universal."
 Kirk & Blum Mfg. Co., 3119 Farrer St., Cincinnati, Ohio. "K & B." (Stake.)
 Knapheide Mfg. Co., Quincy, Ill. (Grain and livestock.)
 Kneuer & Sons, Inc., M. J., 126 Van Buren St., Newark 5, N. J.
 Koch & Son Mfg. Co., 200 Wilson Ave., N. E. St. Cloud, Minn.
 Koerner Sons, Inc., John, 94 Walton St., Brooklyn 6, N. Y.
 Lacey & Sons Co., W. F., 54 Mystic Ave., Medford 55, Mass.
 Lang Co., 267 W. First South St., Salt Lake City 10, Utah.
 Love Wagon Co., Durant, Mich.
 Los Angeles Automotive Works, 1020 Towns Ave., Los Angeles, Calif. (Refrigerator.)
 Lu-Met, Inc., 530 E. 12th St., Cincinnati 16, Ohio.
 McAvoy & Son, Inc., Peter, 30 Garden St., New Rochelle, N. Y.
 McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers," "Service Master" and "Powers"; "Power-American." (Public utility.)
 Mahle Auto Body Co., 370 E. Eighth St., St. Paul 1, Minn.
 Manchester Truck Body Builders, N. Turner St., Manchester, N. H.
 Meeks Son, S. J., 622 G St., N. W., Washington 1, D. C.
 Mellinger Lumber, Inc., 16 Madison St., Leontonia, Ohio.
 Metal Auto Parts Co., Chase & Henry Sts., Indianapolis 7, Ind.
 Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.
 Meyer Body Co., 218 Elm St., Buffalo 2, N. Y. (Refrigerator.)
 Mickey Body Co., W. F., 105 Perry St., High Point, N. C.
 Mid-State Body Co., Waterloo, N. Y.
 Midwest Body & Mfg. Div. Electrographic Corp., S. Central St., Paris, Ill. "Leader," "Mid-West." (Van, panel and stake.)

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EVANSVILLE, INDIANA

February 8, 1951

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BODIES, Commercial—continued

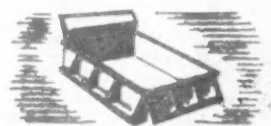
Midwest Works, Inc., W. on Highway 54, Augusta, Kans. "Augusta."
 Miller & Co., A. C., 17 Courtland St., N. E., Atlanta, Ga.
 Miller Trailers, Inc., 708 Third St., W., Bradenton, Fla.
 Millington Truck Body Co., 8440 N. State St., Millington, Mich. (Insulated, milk, produce, bakery and beer.)
 Modern Auto Body Builders Co., 252 Johnson Ave., Brooklyn 6, N. Y. (Also armored.)
 Mohawk Metal Products Co., Frankfort, N. Y. (Bottler's and van.)
 Moline Body Co., 222 52nd St., Moline, Ill.
 Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
 Montpelier Mfg. Co., Montpelier, Ohio. "Montpelier Urban." (Parcel delivery and frequent stop.)
 Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Utility.) "Carry-All."
 Morse Body Mfg. Co., 69 Howard St., Watertown, Mass.
 Murphy Body Works, Inc., Herring Ave., Wilson, N. C. (Also refrigerator.)
 Nabors Co., W. C., Mansfield, La.
 National Steel Products Co., 1611 Crystal Ave., Kansas City 3, Mo. "NSP"
 New Haven Carriage & Auto Works, 508 N. W. Everett St., Portland 9, Ore.
 Niederhut Carriage Co., 3560 Walnut St., Denver 5, Colo.
 Nogues Body Co., 1954 S. Los Angeles St., Los Angeles 11, Cal.
 Novelty Carriage Works, 815 Second Ave., Spokane 8, Wash.
 Ohio Body Mfg. Co., New London, Ohio.
 Olsen & Son, R. P., 920 N. 24th St., Omaha, Neb.
 Olson Corp., J. D. E., 1740 Broadway, New York 19, N. Y. "Kurb-Side." (Package delivery for Chevrolet and GMC chassis; "Kargo-King" van.)
 Olson Mfg. Co., 4000 Warm Springs Ave., Boise, Ida.
 Olson & Son, Inc., Chas., 2945 Pillsbury Ave., Minneapolis, Minn.
 Omaha Standard Body Corp., 2411 W. Broadway, Council Bluffs, Iowa.
 Oneida Products Corp., Canastota, N. Y.
 Orrville Body Co., Orrville, Ohio.
 Parks Body Works, 2215 N. Beckley St., Dallas, Texas.
 Parsons Engineering Corp., 2345 E. 79th St., Cleveland, Ohio. (Public service.)
 Peerless Mfg. Corp., 4300 Bluffton Rd., Ft. Wayne 1, Ind.
 Penn Body Div., Huckensmith Corp., 1946 Penn St., Penn. Pa.
 Perfection Steel Body Co., S. East St., Galion, Ohio.
 Pirach & Sons Co., Peter, 1308 35th St., Kenosha, Wis. (Fire engine.)
 Prawitz & Rayer Co., 1211 S. Tenth St., St. Joseph, Mo.
 Press Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
 Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
 Providence Body Co., 750 Wellington Ave., Cranston, R. I. (Also van.)
 Quitsland Coach Body Corp., North Bend, Wash. "Cascade."
 R. B. Co., Quinotte & Euclid Sts., Kansas City 1, Mo. (Roll-off.)
 Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal.
 Rivers Body Factory, 2304 N. Myrtle Ave., Jacksonville 4, Fla.
 Roadway Mounting & Equip. Co., 21177 Mound Rd. (P. O. Box 164), Van Dyke, Mich. (Also Utility and stake.)
 Robbins & Burke, Inc., 29 Lansdowne St., Cambridge 39, Mass. (Refrigerator and insulated.)
 Rock Hill Body Co., W. Main St., Rock Hill, S. C.
 Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo. (Ice, etc.)
 St. Paul Hydraulic Hoist, Div. Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn. "St. Paul Paxall." (Refuse.)
 Scammell & Sons, 116 Quincy Ave., Quincy, Mass.
 Schaver & Badinger, Inc., 724 S. Saratoga St., New Orleans 12, La.
 Schmidt Carriage Co., D. H., Ninth & Lafayette Sts., St. Joseph 26, Mo.
 Schmitt & Son, Inc., John V., 314 14th St., S. E., Washington 3, D. C.
 Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa. (Refrigerator.)

Sharpsville Steel Fabricators, Inc., Sharpsville, Pa. (Fire apparatus, rescue, emergency and squad trucks.)
 Sherman & Co., Earl, 2526 Wood St., Oakland 7, Cal. "Esco." (Refrigerated.)
 Silver Body Works, Inc., 78 Ingraham St., Brooklyn 6, N. Y.
 Soffe & Son, Morris, 170 W. Berks St., Philadelphia 22, Pa.
 Spangler Engineering & Sales Co., D. H., 426 S. Third St., Hamburg, Pa.
 Spartan Coach & Mfg. Co., 613 N. Centerville Road, Sturgis, Mich.
 Specialty Engineering Co., Allegheny & Trenton Aves., Philadelphia 34, Pa. (Bottlers.)
 Springfield Body & Trailer Co., 1631 College St., Springfield, Mo.
 Stahl Metal Products, Inc., 3490 W. 140th St., Cleveland 11, Ohio. "Craftsman."
 Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif.
 Steel Products Co., P. O. Box 1007, Savannah, Ga.
 Steffen Body Co., O. F., 613 W. Seventh St., Sioux City 17, Iowa.
 Stewart Truck Bodies, Inc., 1785 E. New York Ave., Brooklyn 7, N. Y. (Step in, refrigerator, transportation, van, custom built, platform, stake.)
 Stoughton Cab & Body Co., 408 E. South St., Stoughton, Wis. (Van and stake.)
 Strick Co., Whitaker Ave. & Godfrey St., Philadelphia 24, Pa.
 Sturm & Sons, Inc., J., 864 Clinton Ave., Newark, N. J.
 Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
 Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio. "De Luxe."
 Swab Wagon Co., Elisabeth, Pa.
 Swift All-Steel Body Co., 106 Hoyt St., Saginaw 29, Mich.
 Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.
 Thiele & Son, W. J., 170 Pine St., Johnstown, Pa.
 Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
 Thompson Trailer Corp., Box 3067, Alexandria, Va. (Aluminum public utility, package delivery and van.)
 Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
 Time Saver Body Co., 3035 E. Grand Blvd., Detroit 2, Mich.
 Traffic Body Co., 5301 N. 2nd St., St. Louis, Mo.
 Trailco Mfg. & Sales Co., Mill St., Hummel's Wharf, Pa.
 Transport Equipment Co., P. O. Box 465, Savannah, Ga.
 Travelodge Corp., 65 N. Madison St., Tulsa, Okla.
 Triangle Body Works, 2012 Waughton Rd., Winston-Salem 6, N. C. (Stake and van.)
 Truck & Trailer Industries, Inc., 611 Jackson Ave., New York 55, N. Y.
 Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. "Aristocrat." (Utility.)
 Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC."
 Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
 Vanette Div. of Universal Sales, Inc., Delaware, Ohio. (Parcel delivery, for Ford chassis.)
 Veenema & Wieggers, Inc., 241 N. Tenth St., Paterson 2, N. J.
 Volts Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill.
 Wade & Dunton, Inc., 656 Main St., Lewiston, Maine. (Custom built.)
 Walsh Body Sales Corp., 92-96 Prospect St., Somerville 43, Mass.
 Ward Motor Vehicle Co., 718 S. Fulton Ave., Mt. Vernon, N. Y. (Aluminum.)
 Washington Auto Carriage Works, W. 34 Second Ave., Spokane, Wash.
 Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Calif.
 Weir Body Co., 4504 Corning St., Omaha 3, Neb.
 Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.
 Wentworth & Irwin Inc., 123 N. E. Oregon St., Portland 14, Ore.
 Western Motors, Body Div., 4834 Cermak Rd., Cicero, Ill.
 Williams Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah. "Wabco."
 Winter-Weiss Co., 2001 Blake St., Denver 2, Colo.
 Yancey Bros., 110 Jackson St., N. E., Atlanta, Ga.
 Yankee Motor Bodies, 1224 E. Olympic Blvd., Los Angeles 21, Calif.

York-Hoover Corp., Body Div., Belvidere & Linden Aves., York, Pa. (Also public utility.)

BODIES, Commercial (Prefabricated)

Aluminum Body Corp., 4601 S. Soto St., Vernon 58, Calif.
 Black & Sons, Inc., Adam, 276 Towne Ave., Jersey City, N. J.
 Clayson-Lorenz Co., 4058 W. Chicago Ave., Chicago 51, Ill.
 Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
 Gichner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.
 Gramm Trailer Corp., First Lima Bldg., Lima, Ohio.
 Lindsay Structure, Inc., 5000 W. Dempster St., Skokie, Ill. (Truck and trailer.)
 Metalcraft Engrg. Corp., 1051 W. Peachtree St., N. E. Atlanta 5, Georgia.
 Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa. (Sections.)
 Stahl Metal Products, Inc., 3490 W. 140th St., Cleveland, Ohio. "Craftsman."
 Sturm & Sons, Inc., J., 864 Clinton Ave., Newark, N. J.
 Thiele & Son, W. J., 170 Pine St., Johnstown, Pa.

BODIES, Dump

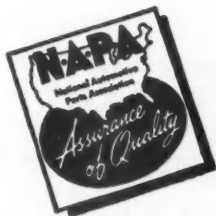
Aluminum Body Corp., 4601 S. Soto St., Vernon 58, Calif.
 Anthony Co., Strator, Ill.
 Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa.
 Auto Truck Equipment Co., 7501 Penn Ave., Pittsburgh 8, Pa. "Atco."
 Auto Truck Steel Body Co., 3028 Carroll Ave., Chicago 12, Ill.
 Baughman Mfg. Co., Jerseyville, Ill. (Self-unloading.)
 Black & Sons, Inc., Adam, 276 Tonnelle Ave., Jersey City, N. J.
 Burch Corp., Thomas St., Crestline, Ohio.
 Clark Co., B. M., Union, Maine.
 Convento Mfg. Co., Cambridge City, Ind.
 Cook Bros. Equip. Co., 3330 San Fernando Rd., Los Angeles 65, Calif.
 Daybrook Hydraulic Corp., Bowling Green, Ohio.
 Detroit Mechanical Hoist Corp., 3502-12 W. Fort St., Detroit 16, Mich.
 Easton Car & Construction Co., Easton, Pa. (Heavy duty.)
 Edwards Trailer & Body Co., Div. of Edwards Iron Works, Inc., 2301 S. Main St., South Bend 23, Ind. (Platform, stock and grain.)
 Feigelson Co., Alex, 500 S. 4th St., Beaumont, Tex.
 Gallion Allsteel Body Co., 605 S. Market St., Galion, Ohio.
 Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW." "Load Packer." (Garbage and rubbish collection unit.)
 Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.
 Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
 Hercules-Campbell Body Co., Tarrytown, N. Y.
 Hercules Steel Products Co., Box 477, Galion, Ohio.
 Independent Iron Works, Eighth & Pine Sts., Oakland 20, Calif.
 Jensen's Body Shop, Phillips, Wis.
 Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Ill.
 Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
 Lang Co., 267 W. First South St., Salt Lake City 10, Utah.
 Lu-Met, Inc., 530 E. 12th St., Cincinnati 10, Ohio.
 Marion Metal Products Co., Cheney Ave., Marion, Ohio.
 Moline Body Co., 222-52nd St., Moline, Ill.
 Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
 National Lift Co., 225 Madison St., Waukesha, Wis. "Dump-O-Matic."
 Olson Mfg. Co., 4000 Warm Springs Ave., Boise, Idaho.
 Palm Bros. Body Co., Eighth & Buttonwood Sts., Reading, Pa. "Hi-Lift." (Coal.)

New Britain FLEX HANDLE A HANDFUL OF JOB-POWER FOR EVERY MECHANIC!

When you get your hands on a New Britain Flex Handle you'll know why they're Tops in Tools! Their solid feel tells you here's a Tool built for rugged, fast action, and lots of it! It's perfectly balanced, slim and long reaching to get in those tough spots!

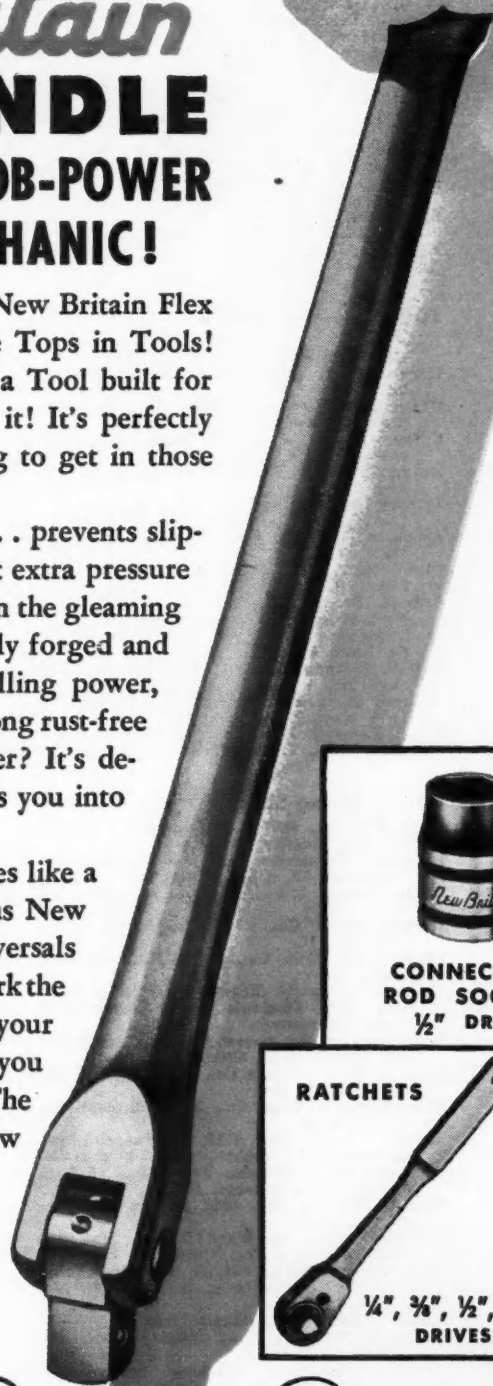
Feel that hand-hugging grip . . . prevents slipping and fumbling when you put extra pressure on tough nuts. Run your eye down the gleaming shank of finest alloy steel, expertly forged and heat treated for tremendous pulling power, triple plate, chrome finished for long rust-free life. See the five position adapter? It's designed to work at all angles, gets you into tight places, around obstacles!

Here's brute power that handles like a baby . . . team it up with famous New Britain Sockets, Cross Bars, Universals and Extensions to turn out fine work the fast, easy New Britain way. Call your NAPA Jobber, he'll gladly show you the great New Britain Line. The New Britain Machine Co., New Britain, Conn.



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DRIVES



UNIVERSAL JOINTS
3/8", 1/2", 3/4"
DRIVES



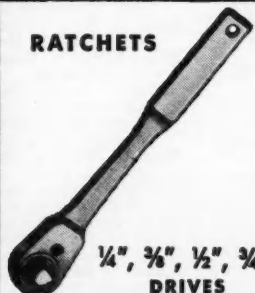
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ROD SOCKETS**
1/2" DRIVE

EXTENSIONS



1/4", 3/8", 1/2", 3/4"
DRIVES

RATCHETS



1/4", 3/8", 1/2", 3/4"
DRIVES

**FLEX
HANDLES**



1/4", 3/8", 1/2", 3/4"
DRIVES

BODIES, Dump—continued

Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn., Pa.
 Perfection Steel Body Co., S. East St., Gallon, Ohio.
 Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
 Providence Body Co., 750 Wellington Ave., Cranston, R. I.
 Rodenhause's Excelsior Wagon Works, Ninth & Jefferson Sts., Philadelphia 22, Pa.
 Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo.
 St. Paul Hydraulic Hoist, Div. Gar Wood Industries, Inc., 2207 University Ave., S. E. Minneapolis 14, Minn.
 Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa.
 Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif.
 Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
 Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind.
 Thiele & Son, W. J., 170 Pine St., Johnstown, Pa.
 Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
 Timpts Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
 Truck Engineering Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. "Aristocrat."
 Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC."
 Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Teco."
 Truck Welding & Equipment Co., 739 Ninth Ave. N., Seattle 9, Wash.
 Veenema & Wieggers, Inc., 241 N. Tenth St., Paterson 2, N. J.
 Voltz Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill.
 Washington Auto Carriage Works, W. 34 Second Ave., Spokane, Wash.
 Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.

BODIES, TANK, See Tanks, Trailer and Truck Body

BODY HOISTS, See Hoists, Truck Body

BODY PARTS (Pre-Shaped)

Automotive Spring, Inc., 2627 Magnolia Ave., Detroit 8, Mich.
 Bath & Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
 Binkley Mfg. Co., Warrenton, Mo.
 Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.
 Cutler Metal Products Co., 1025 Line St., Camden, N. J.
 Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio.
 Hart Pressed Steel Corp., 3306 Hammond St., Elkhart, Ind. (Corner posts, roof bows and caps, rut rails, etc.)
 Hill Auto Body Metal Co., 700 W. 6th St., Cincinnati, Ohio.
 Indianapolis Power Hammer Works, 309 W. Maryland St., Indianapolis, Ind.
 International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
 Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio.
 Kirk & Blum Mfg. Co., 2858 Spring Grove Ave., Cincinnati 25, Ohio.
 Lewgust Corp., 552 W. 23rd St., N. Y. 11, N. Y.
 Lewisohn Sales Co., 552 W. 23rd St., New York, N. Y.
 Lindsay Structure, Inc., 5000 W. Dempster St., Skokie, Ill.
 London Vault Co., London, Ohio. "All-Way." (Braces.)
 Metalcraft Engr. Corp., 1051 W. Peachtree St., N. E., Atlanta 5, Georgia.
 Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.
 Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill.
 Monroe Mfg. Co., 2525 S. Dort Highway, Flint 7, Mich. (Platforms.)
 Pariah Pressed Steel Corp., Robeson & Weizer Sts., Reading, Pa.
 Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio. (Roof bows.)
 Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio.
 Serwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces and bolts.)

BOLTS, Connecting Rod

Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohio.
 Bohn Aluminum & Brass Corp., 1400 Lafayette Blvd., Detroit 26, Mich. "Bohnalite."
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
 Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
 Clawson & Bals, Inc. See Bohn Aluminum & Brass Corp.
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Ferry Bros., 3167 Fulton Rd., Cleveland 9, Ohio.
 Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio.
 Ferry Screw Products, Inc., E. W., Brookpark (Berea), Ohio.
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
 Mac-It Parts Co.; Shippen & Liberty Sts., Lancaster, Pa.
 Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
 Western Automatic Screw Machine Co., 752 Lake Ave., Elyria, Ohio.

BOLTS, Spring Center

Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohio.
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
 Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
 Chicago Screw Co., 1026 S. Homan Ave., Chicago, Ill.
 Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
 Look & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
 Pheoll Mfg. Co., 5700 W. Roosevelt Rd., Chicago, Ill.
 Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
 St. Louis Screw & Bolt Co., 69 N. Broadway, St. Louis 15, Mo.
 Tuthill Spring Co., 760 W. Polk St., Chicago, Ill.
 Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
 Wheel Parts & Mfg. Co., 354-4th Ave., New York 10, N. Y. "National."

BOLTS, Spring Shackle

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 17, Ill. "Quality Built."
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
 Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
 Clark Bros. Bolt Co., Canal St., Milldale, Conn.
 Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
 Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio.
 King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
 McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
 Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Rubber insulated, sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Metzger Welding Co., 1652 Powers St., Cincinnati, Ohio.
 Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
 St. Louis Spring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo. "Moog."
 Simmons Mfg. Co., Ashland, Ohio.
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
 Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

BOOSTERS, BRAKE, See Brakes, Vacuum Power

BOOSTERS, STEERING, See Gears, Steering (Booster Units)

BOOTH, Spraying (Paint and Varnish)

American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brake-Shoe."
 Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.

Black Mfg. Co., 100 Dairy Road, Parkton 93, Md.
 Cascade Mfg. Co., 2439 N. W. 29th St., Portland 10, Ore.
 Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.
 Despatch Oven Co., 619 Eighth St., S. E. Minneapolis 14, Minn.
 Detroit Sheet Metal Works, 1308 Oakman Blvd., Detroit, Mich.
 De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
 Kinnear Mfg. Co., Columbus, Ohio. (Door.)
 Macleod Co., 2232 Bogen St., Cincinnati 23, Ohio.
 Mahon Co., R. C., 6565 E. Eight Mile Road, Detroit 34, Mich.
 Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich. "Roto-Wash."
 Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
 Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. "Hydro-Whirl."
 Schmieg Industries, Inc., 308 Piquette St., Detroit 2, Mich.
 Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco."

BORING BARS, See Tools, Cylinder Re-boring

BORING MACHINES, See Machines, Boring

BRAKE Drums, See Drums, Brake

BRAKE LINING, See Lining, Brake

BRAKE LINING GRINDERS, See Grinders, Brake Lining

BRAKE LOCKS, See Locks, Brake

BRAKE PARTS, See Parts, Brake

BRAKE RELINING MACHINES, See Machines, Brake Relining

BRAKE SHOES, See Shoes, Brake

BRAKES, Air

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
 Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Also accessory units.)
 Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. "Midland-Christensen."
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

BRAKES, Electric

Warner Brake & Clutch Co., P. O. Box 620, Beloit, Wis. (Truck.)

BRAKES, Hydraulic

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
 Bendix Products Div., Bendix Products Corp., 401 Bendix Drive, South Bend 26, Ind.
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
 Martin Co., Glenn L., Baltimore 3, Md.
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. ["Wagner Lockheed" (Licensees); "Hi-Tork." (For commercial vehicles.)]

BRAKES, Master Cylinders (Hydraulic)

Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Mico."
 Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Wagner Lockheed."

BRAKES, Mechanical

American Chain & Cable Co., Automotive & Aircraft Div., 601 Stephenson Bldg., Detroit 2, Mich. "Tru-Stop."
 Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
 Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 26, Ind.



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BRAKES, Mechanical—continued

Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
 Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
 Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

BRAKES, Trailer

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K." (Vacuum power.)
 Dorsey Trailers, Inc., Elba, Ala.
 Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
 Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif. (Mechanical.)
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Magdraulic." (Electric; "Lathan" vacuum power.)
 Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. (Air and vacuum.)
 Roadmaster Products Co., 3350 San Fernando Rd., Los Angeles 7, Calif. "Besler," "Roadmaster." (Vacuum power.)
 Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Mechanical, vacuum or air.)
 Spencer Safford Loadcraft, Inc., Augusta, Kans. "Loadcraft."
 Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala. (Vacuum or air.)
 Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (Air and hydraulic.)
 United Mfg. Co., 30 Interstate St., Bedford, Ohio. (Hydraulic.)
 Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Compressed air.)
 Warner Brake & Clutch Co., P. O. Box 620, Beloit, Wis. (Electric.)

BRAKES, Vacuum Power

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K." "Hydrovac."
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Vaddraulic." (Auto and truck; "Lathan" auto, truck and bus.)
 Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. "Midland-Christensen."
 Roadmaster Products Co., 3350 San Fernando Rd., Los Angeles 7, Calif. "Besler," "Roadmaster."
 Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

BREAKER ARMS, See Arms, Breaker

BREAKER POINTS, See Points, Ignition

BREAKERS, Circuit

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
 Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
 Bulldog Electric Products Co., 7610 Jos Campau Ave., Detroit 32, Mich.
 Cole-Hersec Co., 20 Old Colony Ave., Boston 27, Mass.
 Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
 Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
 F & B Mfg. Co., 4243 W. Chicago Ave., Chicago 51, Ill. "Filko."
 Leece-Neville Co., 5109 Hamilton Ave., Cleveland 14, Ohio.
 Littlefuse, Inc., 4757 Ravenswood Ave., Chicago 40, Ill.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Reynolds Mfg. Co., 1805 Alamo National Bldg., San Antonio 5, Tex. "Remco."
 Rochester Mfg. Co., Inc., 100 Rockwood St., Rochester 10, N. Y.
 Rohden Mfg. Co., 4739 W. Montrose St., Chicago 41, Ill.
 Spencer Thermostat Div., Metals & Controls Corp., 34 Forest St., Attleboro, Mass. "Klixon."
 Square D Co., 6060 Rivard St., Detroit 11, Mich.
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
 Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh, Pa. "De-Ion."

BRUSHES, Carbon Cleaning (Hand)

Millers Falls Co., Greenfield, Mass.
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.

Osborn Mfg. Co., 5401 Hamilton Ave., N.E., Cleveland 14, Ohio.
 Pittsburgh Plate Glass Co. (Brush Div.), Baltimore, Md. "Even Trim."
 Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
 Worcester Brush & Scraper Co., 33 Austin St., Worcester, Mass.

BRUSHES, Carbon Removing

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
 Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio.
 Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
 Herold Mfg. Co., 3927 Clark Ave., Cleveland 9, Ohio.
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
 Keystone Reamer & Tool Co., Millersburg, Pa.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Milwaukee Brush Mfg. Co., 2326 N. 30th St., Milwaukee 45, Wis.
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
 Osborn Mfg. Co., 5401 Hamilton Ave., N.E., Cleveland 14, Ohio.
 Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. "Perfect Balance."
 Rinck-Mellwaine, Inc., 16 Hudson St., New York, N. Y. "Rimac."
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue point."
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
 Van Dorn Electric Tools Towson 4, Md.
 Wilde Drop Forge & Tool Co., 2933 Fairmount Ave., Kansas City, Mo.
 Worcester Brush & Scraper Co., 33 Austin St., Worcester, Mass.

BRUSHES, Fountain, See Washers, Fountain Brushes & Mops

BRUSHES, Generator, Horn and Starter

American Motor Products Co., Fond du Lac, Wis. "Ampco."
 Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
 Automotive Specialty Co., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Generator and starter.)
 Becker Brothers Carbon Co., 3450 S. 52nd Ave., Cicero 50, Ill. "B.B.B." (Generator and starter.)
 Carbone Co., Myrtle Ave., Boonton, N. J.
 Echlin Mfg. Co., 220 East St., New Haven, Conn. (Generator and starter.)
 F & B Mfg. Co., 4243 W. Chicago Ave., Chicago 51, Ill. "Filko." (Generator and starter.)
 Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
 Keystone Carbon Co., 1935 State St., St. Marys, Pa.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." (Generator and starter.)
 National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.
 P. & D. Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Generator and starter.)
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. "Vulcan." (Generator and starter; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
 Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
 Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
 Shurhit Products, Inc., Waukegan, Ill. (Starter and generator.)
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
 Speer Carbon Co., St. Marys, Pa.
 Stackpole Carbon Co., Tannery St., St. Marys, Pa.
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard." (Generator and starter.)
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Generator and starter.)

BRUSHES, WASHING, See Washers, Fountain Brushes and Mops

BUFFERS, Portable

Baldor Electric Co., 4357 Dunegan Ave., St. Louis 10, Mo.
 Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
 Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Admiral," "Metal-master."
 Buckeye Tools Corp., 28 W. Apple St., Dayton 1, Ohio.
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y. "CP."
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
 Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
 Van Dorn Electric Tools, Towson 4, Md.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

BUFFERS, Tire (Electric)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
 Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
 Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 3, Ohio.
 Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. "Blue Streak."
 Kehawke Mfg. Co., 713 S. Elliot St., Muncie, Ind. "Tru-Arc."
 Reuland Electric Co., 3001 W. Mission Rd., Alhambra, Calif.
 Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.
 U. S. Electrical Motors, Inc., 200 E. Slanson Ave., Los Angeles 54, Calif. "AutoStart."
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.

BULBS, See Lamps, Bulbs, Miniature, Incandescent

BUMPERS

Bath Co., Cyril, Metal Form Div., E. 70th & Machinery Ave., Cleveland 3, Ohio.
 Central Motors Co., 906 Austin Ave., Waco, Tex. "General Purpose." (Rear, for Dodge trucks.)
 Electric Auto-Lite Co., Springfield, Ohio.
 Houdaille-Hershey Corp., Chicago Bumper Div., 1455 W. 38th St., Chicago 9, Ill.
 Houdaille-Hershey Corp., Detroit Bumper Div., 2660 E. Grand Blvd., Detroit 11, Mich.
 Houdaille-Hershey Corp., Huntington Div., 900 Ninth Ave., W., Huntington, W. Va.
 Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. "Redi-Fit." (Rear, for light trucks.)
 Michigan Bumper Corp., 740 Ann St., Grand Rapids, Mich.
 Nash Bros. Co., Dewey Ave. & Payne St., Evanston, Ill. "Body-Gard." (Channel, for trucks and buses.)
 Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.
 Standard Steel Spring Co., Cornapolis, Pa. (Also trailer.)
 United States Spring & Bumper Co., 4661 Alcoa Ave., Los Angeles 11, Calif.

BUSES

ACF-Brill Motors Co., 62nd St. & Woodland Ave., Philadelphia 42, Pa. (Also trolley coaches.)
 Available Truck Co., 2501 Elston Ave., Chicago, Ill. (Gasoline or Diesel.)
 Beaver Metropolitan Coaches, Inc., 24th St. Ext., Beaver Falls, Pa.
 Beck & Co., C. D., Sidney, Ohio.
 Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
 Chevrolet Motor Div. of General Motors Corp., General Motors Corp., Detroit 2, Mich.
 Corbitt Co., Henderson, N. C.
 Crown Body & Coach Corp., 2500 E. 12 St., Los Angeles 21, Calif. (Gasoline.)
 (TURN TO PAGE 88, PLEASE)

NATIONAL ASSOCIATIONS

(Date in Parentheses Indicates Year Founded)

AMERICAN ASSN. OF STATE HIGHWAY OFFICIALS (1914), 917 National Press Bldg., Washington 4, D. C., H. H. Hale, Executive Sec.

AMERICAN AUTOMOBILE ASSN. (1902), Pennsylvania Ave. at 17th St., N.W., Washington 6, D. C., Russell E. Singer, Executive V. P.

AMERICAN PETROLEUM INSTITUTE (1919), 50 West 50th St., New York 20, N. Y., Frank M. Porter, President; James E. Mass, Director Division of Transportation, 1625 K St., N.W., Washington 6, D. C.

AMERICAN ROAD BUILDERS' ASSN. (1902), International Bldg., Washington 4, D. C., Eugene Reybold, Exec. V. P. and Sec.

AMERICAN SOCIETY OF BODY ENGINEERS, Inc. (1945), 100 Farnsworth Ave., Detroit 2, Mich., G. J. Lawton, Sec.

AMERICAN SOCIETY OF REFRIGERATING ENGINEERS (1904), 40 West 40th St., New York 18, N. Y., M. C. Turpin, Sec.

AMERICAN TAXICAB ASSN. (1942), 4415 N. California Ave., Chicago 25, Ill., M. H. Smith, Exec. Sec.

AMERICAN TRANSIT ASSN. (1882), 292 Madison Ave., New York 17, N. Y.
STAFF EXECUTIVES:
Executive Manager—Guy C. Hecker.
Gen'l. Sec.—Arthur W. Baker.
Administration Asst.—Van Court Lucas.
Asst. to Mgr. & Sec.—Kenneth L. McKee.
Dept. of Personnel & Accident Prevention—Merwyn A. Kraft, Dir.
Dept. of Research—Walter S. Rainville, Jr., Dir.
Engineering Asst.—James A. Emery, Jr.
Asst. to Exec. Mgr.—Geo. W. Anderson.
Public Relations Division—John C. Cropper, Sec.
Editor in Chief, Passenger Transport—William U. Taylor.
Statistical Dept.—E. B. McCaul, Dir.

AMERICAN TRUCKING ASSN., INC. (1933), 1424 Sixteenth St., N.W., Washington 6, D. C.
STAFF EXECUTIVES:
Managing Director—John V. Lawrence.
General Manager—Ray G. Atherton.
Asst. Gen'l. Mgr. & Dir. Public Relations—Walter W. Belson.
General Counsel—Edgar S. Idol.
Comptroller—George H. Minnick.
Dir. Dept. of Research—W. A. Bresnahan.
Dir. Traffic Dept.—Frederick G. Freund.
Dir. Dept. of Safety—G. D. Sontheimer.
Dir. Dept. Industrial Relations—Benjamin R. Miller.
Dir. Field Service Dept.—Harry B. Bridgman.
Editor, Transport Topics—Morris H. Glazer.

ATA SECTIONS:

Equipment & Operating Section—Hoy Stevens, Chief.
Freight Claim Section—John M. Miller, Sec.
Special Services Section—E. M. Welliver, Chief.
Government Traffic Section—W. C. McCloskey, Chief.
Publicity Section—Robert J. Test, Chief.
Accident Statistics Section—Neil Darmstadter, Chief.
Librarian—Henry Re.

ATA CONFERENCES:

Regular Common Carrier Conference—Robert J. McBride, Gen. Mgr.
Irregular Route Common Carrier Conference—Miss Genevieve McGoff, Mgr. Sec.
Local Cartage Conference—Frank Floyd, Exec. Sec.
Movers Conference of America—James F. Rowan, Exec. Sec.
Tank Truck Carriers Conference—C. Austin Sutherland, Sec. Mgr.

ccj

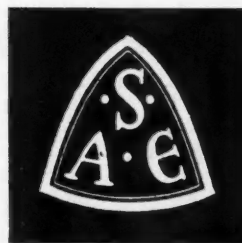
COMMERCIAL CAR JOURNAL'S

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NATIONAL ASSOCIATIONS (Cont.)

AMERICAN TRUCKING ASSN., INC. (Continued)

Contract Carriers Conference—Mrs. Vee Kennedy, Exec. Sec.
Automobile Transporters Conference—W. A. Bresnahan.
Film Carriers Conference—Harry B. Bridgman.
Oilfield Haulers Conference—Neil Darmstadter.
Private Carriers Conference—Vincent O'Donnell.
(See also listings under State Truck Associations)

AUTOMOBILE MANUFACTURERS ASSN. (1913), 320 New Center Bldg., Detroit 2, Mich.

STAFF EXECUTIVES:
Managing Dir.—Wm. J. Cronin.
Motor Truck Div. and Field Services Dept.—Karl M. Richards, Mgr.
Dir. Public Relations—Wm. H. McGaughey.
Statistical Dept.—O. P. Pearson, Mgr.
Patent Dept.—George C. Arvedson, Mgr.
Traffic Dept.—Kenneth A. Moore, Mgr.
Engineering Dept.—Wm. F. Sherman, Mgr.
Washington Office—880 Transportation Bldg., Harlan V. Hadley, Mgr.; John H. King, Motor Truck Div. representative.
New York Office—366 Madison Ave., Alfred Reeves, Advisory V. P.

AUTOMOTIVE SAFETY FOUNDATION (1937), 700 Hill Bldg., Washington 6, D. C., Pyke Johnson, Pres.

HIGHWAY RESEARCH BOARD OF NATIONAL RESEARCH COUNCIL (1920), 2101 Constitution Ave., Washington 25, D. C.; Fred Burggraf, Acting Dir.

NATIONAL ASSN. OF MOTOR BUS OPERATORS (1926), 839 17th St., N.W., Washington 6, D. C.

STAFF EXECUTIVES:
Secretary-Manager—A. W. Koehler.
Asst. to Sec.-Mgr.—W. R. Longanecker.
General Counsel—Jack Garrett Scott.
Dir. of Div. of Research & Statistics—Harold R. Hosea.

NATIONAL ASSN. OF TAXICAB OWNERS (1918), 803 Leader Bldg., Cleveland 14, Ohio, H. I. Gwilym, Sec.

NATIONAL AUTOMOBILE DEALERS ASSN. (1917), 1026 17th St., N.W., Washington 6, D. C., M. Robert Deo, Mgr.-Dir.

NATIONAL AUTOMOBILE TRANSPORTERS ASSN. (1944), 2627 Cadillac Tower, Detroit 26, Mich., R. E. Belser, Gen. Mgr.

NATIONAL BUS TRAFFIC ASSN., INC. (1933), 506 S. Wabash Ave., Chicago 6, Ill.

P. J. Campbell, Chairman.
North Central Division—340 W. State St., Jacksonville, Ill., N. E. Simmons, Chairman.
South Central Division—501 17th St., Denver, Colo., C. R. Deisher, Chairman.
Western Division—506 S. W. Mill St., Portland, Ore., B. W. Wilson, Chairman.

NATIONAL COUNCIL OF PRIVATE MOTOR TRUCK OWNERS, INC. (1939), Kase Bldg., Washington 6, D. C., H. Scott Byerly, Mgr. Dir.

NATIONAL HIGHWAY USERS CONFERENCE, INC. (1932), National Press Bldg., Washington 4, D. C.

STAFF EXECUTIVES:
Director—Arthur C. Butler.
Asst. Director—P. D. McLean.
Research Counsel—Dawes E. Brisbane.
Engineering Counsel—Roy Jorgensen.
Mgr. States Services Dept.—Russell E. MacCleary.

REGIONAL REPRESENTATIVES:

(Note: For exact locations, address through National headquarters in Washington.)
John E. Boyd, Jr., Denver 10, Colo. (Colo., N. M., Utah, Wyo.)

G. H. Buenger, Seattle, Wash. (Idaho, Mont., Ore., Wash.)

Cecil Fausch, Minneapolis 21, Minn. (Iowa, Minn., Neb., N. D., S. D.)

G. Lyle Griffin, Oklahoma City, Okla. (Ark., Kan., Mo., Okla., Tex.)

David L. Kelly, Winston-Salem, N. C. (Fla., Ga., N. C., S. C., Va.)

Russell D. Lund, Chicago 2, Ill. (Ill., Ind., Mich., Ohio, Wis.)

David F. McQuaid, Nashua, N. H. (New York and supervision of New England States)

Theodore K. Robinson, Winthrop, Mass. (Conn., Maine, Mass., N. H., R. I., Vt.)

John C. Sandidge, Nashville 6, Tenn. (Ala., Ky., La., Miss., Tenn.)

Frederick J. Sievers, Jr., Harrisburg, Pa. (Del., Md., N. J., Pa., W. Va.)

H. B. Simpson, San Francisco 2, Cal. (Ariz., Cal., Nev. and supervision of 11 western states.)

(See also listing under State Highway Users Conferences)

NATIONAL TRUCK BODY MANUFACTURERS AND DISTRIBUTORS ASSN., INC., 1122 DuPont Circle Bldg., Washington 6, D. C., Shipley D. Burton, Sec.-Mgr.

NATIONAL TRUCK LEASING SYSTEM (1945), 23 E. Jackson Blvd., Chicago 4, Ill., Miss Martha Dunlap, Sec.-Mgr.

NATIONAL SAFETY COUNCIL (1913), 425 N. Michigan Ave., Chicago 11, Ill.

STAFF EXECUTIVES:

Ned H. Dearborn, President.

R. L. Forney, Genl. Secy.

Paul H. Coburn, Dir. Commercial Vehicle & Transit Div.

Eastern Region Office—Edwin S. Smith, Dir., 800 Chrysler Bldg., New York 17, N. Y.

Western Region Office—Mrs. Barbara Pritchard, Office Manager, 111 Sutter St., San Francisco 4, Calif.

NATIONAL WHEEL AND RIM ASSN. (1924), 208 W. St. Clair Ave., Cleveland 13, Ohio.

SOCIETY OF AUTOMOTIVE ENGINEERS, INC. (1905), 29 W. 39th St., New York 18, N. Y.

STAFF EXECUTIVES:

Sec. & Gen. Mgr.—John A. C. Warner.

Meetings Div.—T. A. Bissell, Mgr.

Technical Div.—Don Blanchard, Mgr.

Membership & Sections Div.—Hollister Moore, Mgr.

Administrative Div.—J. C. Hollis, Mgr.

Exec. Editor SAE Journal—Norman G. Shidle.

SAE Detroit Office—808 New Centre Bldg., Detroit, Mich., R. C. Sackett, Mgr.

SAE West Coast Office—714 W. Olympic Blvd., Los Angeles 15, Cal., E. W. Rents, Jr., Mgr.

(See also listing under SAE Sections and Groups)

RUBBER MANUFACTURERS ASSN., INC. (1900), 444 Madison Ave., New York 22, N. Y., A. L. Viles, Pres. & Gen. Mgr.

TIRE AND RIM ASSN., INC. (1902), 2001 First National Tower, Akron 8, Ohio, C. G. Hoover, Exec. V. P. & Sec.

TRANSPORTATION ASSN. OF AMERICA (1935), 130 N. Wells St., Chicago 6, Ill., Donald D. Conn, Exec. V. P.

TRUCK-TRAILER MANUFACTURERS ASSN., INC. (1941), National Press Bldg., Washington 4, D. C., John B. Hulse, Sec.-Mgr.

STATE MOTOR TRUCK ASSOCIATIONS

(Affiliated with American Trucking Assn., Inc., except as noted)

MOTOR VEHICLE ASSN. OF ALABAMA, INC. (1936), 224 Comer Building, Birmingham 3, Ala., R. J. Goode, Exec. V. P.

ARIZONA MOTOR TRANSPORT ASSN. (1939), 1633 W. Jefferson, Phoenix, Ariz., Glenn B. Sharp, Secy.-Mgr.

ARKANSAS BUS & TRUCK ASSN., INC. (1942), 614 Wallace Building, Little Rock, Ark., Marion G. Ward, Mgr. (Also buses.)

*PRIVATE TRUCK OWNERS BUREAU OF CALIF., 1625 Russ Bldg., San Francisco 4, Calif., P. Arnold Anderson, Exec. V. P.

TRUCK OWNERS ASSN. OF CALIFORNIA, INC. (1934), 417 Market Street, Rm. 218, San Francisco, Cal., Larry Fites, Mgr.-Dir.

*AUTOMOTIVE COUNCIL, P. O. Box 351, Los Angeles 53, Calif., P. H. Ducker.

MOTOR TRUCK ASSN. OF SOUTHERN CALIFORNIA (1935), 2900 Alameda St., Los Angeles 58, Cal., Wade Sherrard, Gen. Mgr.

COLORADO MOTOR CARRIERS ASSN. (1939), 407 Denham Building, Denver 2, Col., Ed L. Reilly, Exec. Secy.-Treas.

MOTOR TRANSPORT ASSN. OF CONNECTICUT, INC. (1930), 410 Asylum Street, Hartford 3, Conn., John F. Maerz, Secy.-Mgr.

DELAWARE MOTOR TRUCK ASSN. (1939), Keith Building, Dover, Del., Ernest V. Keith, Gen. Mgr.

DISTRICT OF COLUMBIA TRUCKING ASSN., INC. (1934), 1424 16th St., N.W., Washington 6, D. C., John R. Scott, Exec. Secy.

FLORIDA TRUCKING ASSN., INC. (1934), 218 W. Church St., P. O. Box 238, Jacksonville, Fla., C. A. Gertner, Exec. Secy.

GEORGIA MOTOR TRUCKING ASSN., INC. (1934), 298½ Peachtree St., N.E., Atlanta, Ga., N. L. Young, Exec. V. P.

IDAHO MOTOR TRANSPORT ASSN. (1939), 909 Jefferson St., P. O. Box 834, Boise, Idaho, Kenneth Hartzler, Secy. Mgr.

CENTRAL MOTOR FREIGHT ASSN. (1930), 316 East Ohio St., Chicago, Ill., R. B. Thornton, Mgr.

ILLINOIS MOTOR TRUCK OPERATORS ASSN., INC. (1924), 10 S. LaSalle St., Chicago, Ill., Walter McCarron, Gen. Mgr.

INDIANA MOTOR TRUCK ASSN., INC. (1932), 701-03 Roosevelt Bldg., 9 N. Illinois St., Indianapolis 4, Ind., James Nicholas, Exec. Secy.

*PRIVATE TRUCK OWNERS OF INDIANA, INC., 1127 Central Ave., Indianapolis 2, Ind., C. W. Abraham, Sec.

IOWA MOTOR TRUCK ASSN., INC. (1943), 310 Central National Bldg., Des Moines, Iowa, LeRoy Crowley, Secy.-Mgr.

KANSAS MOTOR CARRIERS ASSN., INC. (1936), 503 New England Bldg., Topeka, Kan., John W. Harvey, Secy.-Mgr.

KENTUCKY MOTOR TRANSPORT ASSN., INC. (1924), 601-03 Republic Bldg., Louisville 2, Ky., Lew Ullrich, Managing Director.

LOUISIANA MOTOR TRANSPORT ASSN., INC. (1939), 1216 Main St., P. O. Box 1326, Baton Rouge, La., James P. Babington, Secy.-Mgr.

MAINE TRUCK OWNERS ASSN. (1946), Rm. 313, 415 Congress St., Portland, Me., William P. Shapleigh, Exec. Secy.

MARYLAND MOTOR TRUCK ASSN., INC. (1935), 22 Light Street, Baltimore 2, Md., Marshall Stewart, Exec. V. P.

MASSACHUSETTS MOTOR TRUCK ASSN., INC. (1919), 262 Washington St., Boston 3, Mass., Myles Illingworth, Mgr.

DIRECTORY OF ASSOCIATIONS

MICHIGAN TRUCKING ASSN. (1934), 220 Fort Shelby Hotel, Detroit 26, Mich., Miss Florence Kiely, Managing Director.

MINNESOTA MOTOR TRANSPORT ASSN. (1932), 2453 University Ave., St. Paul W-4, Minn., Lou Hosking, Gen. Mgr.

MISSISSIPPI MOTOR TRANSPORT ASSN. INC. (1943), 504 Deposit Guaranty Bank Bldg., Jackson 104, Miss., C. R. Bradley, Mgr.

MISSOURI BUS & TRUCK ASSN. (1937), 106 East McCarty, Jefferson City, Mo., U. G. Lewellen, Secy.

MONTANA MOTOR TRANSPORT ASSN. (1938), 124 N. 24th St., P. O. Box 1244, Billings, Mont., Leonard Eckels, Secy. Mgr.

NEBRASKA MOTOR CARRIERS ASSN. INC. (1924), 1318 "J" Street, Lincoln, Neb., Paul Halpine, Secy.

NEVADA MOTOR TRANSPORT ASSN. (1939), 210 West 2nd St., P. O. Box 2168, Reno, Nev., Robert Guinn, Mgr.

NEW HAMPSHIRE TRUCK OWNERS ASSN. INC. (1936), 274 Hanover St., Manchester, N. H., A. J. Staby, Secy. Mgr.

NEW JERSEY MOTOR TRUCK ASSN. (1915), 10 Hill St., Newark 2, N. J., D. J. Crecca, Mgr.

NEW MEXICO MOTOR CARRIERS ASSN. (1938), P. O. Box 1126, Albuquerque, N. M., Charles H. Washam, Mgr.

MOTOR CARRIER ASSN. OF NEW YORK (1944), 23 East 26th St., New York 10, N. Y., Joseph M. Adelizzi, Mgr. Dir.

NEW YORK STATE MOTOR TRUCK ASSN. INC. (1932), 30 Vesey Street, New York 7, N. Y., Frank B. Kurtz, Mgr. Dir.

NORTH CAROLINA MOTOR CARRIERS ASSN. (1929), 712-15 Lawyers Bldg., Raleigh, N. C., J. T. Outlaw, Secy.

NORTH DAKOTA MOTOR CARRIERS ASSN. INC. (1935), 212 Broadway, Bismarck, N. D., Allan M. Shirley, Secy. Mgr.

OHIO TRUCKING ASSN. INC. (1918), Leveque-Lincoln Tower, Columbus, Ohio, Frank Kirby, Secy.

ASSOCIATED MOTOR CARRIERS OF OKLAHOMA INC. (1932), 236 Oklahoma Natural Bldg., Oklahoma City 1, Okla., W. E. Van Vacter, Secy. Mgr.

OREGON MOTOR TRANSPORT ASSN. (1939), Weatherly Building, Portland 14, Ore., James B. Sharkey, Mgr.

PENNSYLVANIA MOTOR TRUCK ASSN. (1928), 7th Floor, Telegraph Bldg., Harrisburg, Pa., Edward Gogolin, Gen. Mgr.

RHODE ISLAND TRUCK OWNERS ASSN. (1931), 49 Weybosset St., Providence 3, R. I., Joseph E. Connell, Mgr.

MOTOR TRANSPORTATION ASSN. OF SOUTH CAROLINA INC. (1933), 319 Jefferson Hotel, Columbia, S. C., William B. Love, Jr., Gen. Mgr.

ASSOCIATED MOTOR CARRIERS, INC. OF SOUTH DAKOTA (1937), 814 East Rice St., Sioux Falls, S. D., R. J. Williams, Gen. Mgr.

TENNESSEE MOTOR TRANSPORT ASSN. INC. (1934), 518 Cotton States Bldg., Nashville 3, Tenn., R. Stanley Owens, Mgr.

***PRIVATE TRUCK OWNERS ASSN. OF TEXAS** INC., P. O. Box 1091, Littlefield Bldg., Austin, Tex., Carl C. Hardin, Exec. Sec.

TEXAS MOTOR TRANSPORTATION ASSN. INC. (1932), 101½ E. 10th St., P. O. Box 92, Austin 1, Tex., James E. Taylor, Exec. Dir. (Also buses.)

UTAH MOTOR TRANSPORT ASSN. INC. (1932), 1030 Gale Street, P. O. Box 686, Salt Lake City 4, Utah, L. Darrel Welling, Secy. Mgr.

VERMONT TRUCK & BUS ASSOCIATION INC. (1934), 10 Park Street, St. Johnsbury, Vt., Harold G. Powell, Clerk.

VIRGINIA HIGHWAY USERS ASSN. INC. (1931), Box 1397, Jefferson Hotel, Richmond 11, Va., Randolph P. Saunders, Exec. Secy.

WASHINGTON MOTOR TRANSPORT ASSN. INC. (1923), Stabbert's Bldg., 1200 Westlake Ave., N., Seattle 9, Wash., Wm. Hicks, Secy. Mgr.

WEST VIRGINIA MOTOR TRUCK ASSN. INC. (1936), 303 Duffy St., P. O. Box 5217, Charleston, W. Va., Emmett J. Bush, Mgr. Dir.

WISCONSIN MOTOR CARRIERS ASSN. (1931), One W. Main St., Madison, Wis., John P. Varda, Gen. Mgr.

WYOMING TRUCKING ASSN. (1940), 628 West Yellowstone, Casper, Wyo., Fred B. Woodring, Secy. Mgr.

* Affiliated with National Council of Private Motor Truck Owners, Inc.

STATE AND SECTIONAL BUS ASSOCIATIONS

(Arranged by State Location)

ALABAMA BUS ASSN., 504 N. Court St., Montgomery, Ala., William F. Black, Exec. Sec.

SOUTHERN TRANSIT EQUIPMENT ASSN., 848 S. 42nd St., Birmingham, Ala., A. Taurman, Sec.-Treas.

ARKANSAS BUS AND TRUCK ASSN. (See State Motor Truck Assns.)

CALIFORNIA TRANSIT ASSN., 58 Sutter St., San Francisco 4, Cal., W. V. Hill, Mgr.

MOTOR CARRIERS ASSN. OF CALIFORNIA (1915), 918 Kohl Bldg., San Francisco 4, Cal., Arthur H. Samish, Sec.-Mgr.

CONNECTICUT MOTOR STAGE ASSNS. INC. (1922), 193 Grand St., Waterbury, Conn., Frank T. Healey, Sec.

FLORIDA BUS ASSN. (1950), Tallahassee, Fla., J. Kenneth Ballinger, Exec.-Dir.

SOUTHEASTERN BUS TRAFFIC ASSN. INC. (1943), 6 N. Rhodes Center, N.W., Atlanta, Ga., M. E. Wood, Sec.-Mgr.

ILLINOIS BUS ASSN. (1925), 523 E. Capitol Ave., Springfield, Ill., Miss Altoe Nelson, Exec.-Sec.

INDIANA BUS ASSN. INC. (1935), 218 Bankers Trust Bldg., Indianapolis 4, Ind., Harry J. Harman, Sec.

KENTUCKY PASSENGER BUS ASSN. (1937), 261 West Short St., Lexington 15, Ky., Harold J. Utter, Sec.-Treas.

NEW ENGLAND BUS ASSN., 10 State St., Boston, Mass., Harold B. Gordon, Chairman.

NEW ENGLAND TRANSIT CLUB, 10 High St., Boston, Mass., Harold R. Benson, Sec.

MARYLAND MOTOR BUS OPERATORS ASSN. INC., 55 E. Washington St., Hagerstown, Md., F. D. Spofford, Sec.

MICHIGAN MOTOR BUS ASSN. (1921), 404 Hollister Bldg., Lansing, Mich., J. C. Smith, Sec.

MIDWEST TRANSIT ASSN., c/o Kansas City Public Service Co., Kansas City, Mo., Albert H. Wood, Sec.

NEW JERSEY MOTOR BUS ASSN. INC. (1935), 921 Bergen Ave., Jersey City, N. J., Nathaniel L. Fish, Sec.-Treas.

INTERCITY BUS TRAFFIC ASSN. OF NEW YORK STATE INC. (1933), 901 Home Savings Bank Bldg., Albany 7, N. Y., Mildred Kling, Sec.

NEW YORK STATE MOTOR BUS ASSN. INC. (1934), 202 Walbridge Bldg., Buffalo 2, N. Y., Charles F. Kenney, Treas.

OHIO MOTOR BUS ASSN. (1922), 209 S. 3rd St., Columbus 15, Ohio, R. J. Lewis, Sec.-Treas.

NORTHEASTERN BUS TRAFFIC ASSN., 2341 Carnegie Ave., Cleveland 15, Ohio, R. H. Freese, Sec.

ASSOCIATED MOTOR CARRIERS OF OKLAHOMA INC. (1932), 236 Oklahoma Natural Bldg., Oklahoma City, Okla. W. E. Van Vacter, Sec.-Mgr.

OREGON BUS ASSN. (1933), 509 S.W. Taylor St., Portland 4, Ore., R. K. Reed, Sec.-Treas.

PENNSYLVANIA BUS ASSN. (1923), Commerce Building, 2nd & Pine Sts., Harrisburg, Pa., Jennie B. Brugnoli, Asst. Sec.-Treas.

TEXAS MOTOR BUS ASSN. INC., 105 W. 14th St., Austin, Tex., J. Manley Head, Sec.-Mgr.

TEXAS MOTOR TRANSPORTATION ASSN. (See State Motor Truck Assns.)

TRI-STATE MAINTENANCE ASSN., c/o Southern Pennsylvania Bus Co., Chester, Pa., William H. Powelson, Sec.-Treas.

VIRGINIA PASSENGER BUS ASSN., 3309 Monument Avenue, Richmond, Va., Harris Mitchell, Exec.-Sec.

MOTOR COACH ASSN. OF WASHINGTON (1920), 201 Capitol Park Bldg., Olympia, Wash., H. F. Josefsky, Sec.-Mgr.

WEST VIRGINIA BUS ASSN. (1924), P. O. Box 1267, Charleston 25, W. Va., M. B. Aldrich, Mgr. Dir.

LOCAL FLEET ASSOCIATIONS

Interim Committee (for coordination of organizations) Thomas J. Berk, Chairman, 1 Madison Ave., New York 10, N. Y.

SOCIETY OF FLEET SUPERVISORS OF GREATER MIAMI, c/o Leonard Bros., Transfer & Storage Co., Inc., 2595 N.W. 20th St., Miami 42, Fla., Armlon Leonard, Sec.-Treas.

FLEET SUPERVISORS ASSN. (1951), 6 Louise Place, N.W., Atlanta, Ga., C. E. Steed, Pres.

ASSN. OF FLEET MAINTENANCE SUPERVISORS (OF BOSTON), 61 Templeton St., Dorchester, Mass., J. A. Coughlin, Sec.

MICHIGAN FLEET SUPERVISORS ASSN., c/o U. S. Truck Co., 2290 24th St., Detroit 16, Mich., Alfred A. LaVanway, Sec.

MIDWEST FLEET SAFETY SUPERVISORS' ASSN., P. O. Box 5066, Industrial Station, St. Paul, Minn., G. H. Becker, Secy.-Treas.

MOTOR TRUCK MAINTENANCE CLUB OF NEW YORK (1925), c/o Cab Service & Parts Corp., 315 W. 68th St., New York 23, N. Y., O. W. Wuerz, Sec.

SOCIETY OF FLEET SUPERVISORS, INC. (OF NEW YORK) (1945), c/o Hegeman Farms Corp., 1624 Centre St., Ridgewood, N. Y., J. M. Kavanagh, Sec.

TRUCK AND BUS MAINTENANCE ASSN. OF BUFFALO (1945), 226 Ohio St., Buffalo 4, N. Y., Charles J. Palisano, Sec.

OKLAHOMA CITY FLEET SUPERVISORS ROUNDTABLE, 319 Hales Bldg., Oklahoma City 2, Okla., Dan Hollingsworth.

NATIONAL ASSN. OF FLEET SUPERVISORS (Portland Chapter), c/o Davidson Bakeries, 700 N.E. 22nd, Portland, Ore., Ernie Belfield, Sec.

FLEET MAINTENANCE ASSN. OF PHILADELPHIA (1948), 1831 Naple Ave., Philadelphia 11, Pa., John R. Schaefer, Sec.

NATIONAL ASSN. OF FLEET SUPERVISORS (SEATTLE CHAPTER) (1947), c/o Loomis Armored Car Service, Inc., 114 Cherry St., Seattle, Wash., Paul Hayes, Pres.

STATE HIGHWAY USERS CONFERENCES

- ALABAMA:** Curtis Flowers, Ala. Petroleum Indus. Comm., 621 Shepherd Bldg., Montgomery.
- ARIZONA:** Glen B. Sharp, Mgr., Arizona Motor Transport Assn., 1633 West Jefferson St., Phoenix.
- ARKANSAS:** W. F. Scarborough, c/o Arkansas Petroleum Industries Committee, 615 Rector Bldg., Little Rock.
- CALIFORNIA:** Alan G. Anderson, Private Truck Owners Bureau, Russ Bldg., San Francisco.
- COLORADO:** E. L. Reilly, Colorado Motor Carriers Assn., 407 Denham Bldg., Denver 2.
- CONNECTICUT:** E. Leroy Emanuelson, Conn. Petroleum Industries Comm., 410 Asylum St., Hartford.
- DELAWARE:** Ralph Peters, Delaware Farm Bureau, 313 S. State Street, Dover.
- FLORIDA:** C. A. Gertner, c/o Florida Trucking Assn., Inc., 218 West Church St., P. O. Box 238, Jacksonville.
- GEORGIA:** Walter McKee, Exec. Secy., Georgia Independent Oil Men's Assn., 346 Altoona Place, S.W., Atlanta.
- IDAHO:** Ezra Hawkes, Pres., Idaho Motor Transport Assn., 909 Jefferson St., P. O. Box 834, Boise.
- ILLINOIS:** James C. Gilruth, 1503 E. 69th, Chicago.
- INDIANA:** Leland K. Fishback, c/o Indiana Petroleum Industries Comm., Circle Tower, Indianapolis 4.
- IOWA:** James W. Richards, Iowa Petroleum Industries Comm., 924 Des Moines Bldg., Des Moines.
- KANSAS:** John W. Harvey, Kansas Motor Carriers Assn., 503 New England Bldg., Topeka.
- KENTUCKY:** Lew Ullrich, c/o Kentucky Motor Transport Assn., and Kentucky Automobile Dealers Assn., Republic Bldg., Louisville.
- LOUISIANA:** J. R. Major, Louisiana Petroleum Industries Committee, 404 Louisiana National Bank Bldg., Baton Rouge.
- MAINE:** Leroy T. Snowdon, c/o Maine Petroleum Industries Committee, 283 Water Street, Augusta.
- MARYLAND:** J. C. Darrell, c/o Automotive Trade Assn. of Maryland, Suite 336, Belvedere Hotel, Baltimore.
- MASSACHUSETTS:** Richard F. Paul, Massachusetts Petroleum Industries Committee, 11 Beacon St., Boston 8.
- MICHIGAN:** Carl Buchanan, Legislative Representative, Michigan Motor Bus Assn., 404 Hollister Bldg., Lansing 8.
- MINNESOTA:** H. M. Whisman, c/o Minnesota Petroleum Industries Committee, Builders Exchange Bldg., Minneapolis 2.
- MISSISSIPPI:** Walter D. May, Mississippi Petroleum Industries Committee, 1204 Deposit Guaranty Bank Bldg., Jackson.
- MISSOURI:** D. G. Spencer, c/o Missouri Petroleum Industries Committee, Rms. 320-321, Hotel Governor, Jefferson City.
- MONTANA:** John J. Jewell, c/o Montana Automobile Dealers Assn., P. O. Box 1005, Gold Block, Helena.
- NEBRASKA:** H. H. Hahn, c/o Nebraska Petroleum Marketers Assn., Inc., 1318 J St., Lincoln.
- NEVADA:** Robert F. Guinn, Nevada Motor Transport Assn., 210 West 2nd Street, Reno.
- NEW HAMPSHIRE:** A. J. Staby, c/o New Hampshire Truck Owners Assn., 275 Hanover St., Manchester.
- NEW JERSEY:** W. J. Gaffney, New Jersey Petroleum Industries Committee, 318-319 Trenton Trust Bldg., Trenton.
- NEW MEXICO:** William Randolph, New Mexico Auto. Dealers Assn., P. O. Box 68, Albuquerque.
- NEW YORK:** Charles Henderson, Exec. V. P., c/o New York State Automobile Dealers Assn., 190 State St., Albany.
- NORTH CAROLINA:** (Acting) Mrs. Margaret Caldwell, c/o North Carolina State Grange, Piedmont Bldg., Greensboro.
- NORTH DAKOTA:** J. B. Connolly, Secy. Treas., N. D. Automobile Club, 311 Broadway, No., Fargo.
- OHIO:** J. Russell Lloyd, Secy., Ohio State Automobile Assn., 50 West Broad Street, Columbus.
- OKLAHOMA:** Steve Stahl, Okla. Public Expenditures Council, 306 N. Robinson, Okla. City.
- OREGON:** Sid King, Oregon Motorist, 1101 S.W. Washington St., Portland 5.
- PENNSYLVANIA:** R. B. Maxwell, c/o Pennsylvania Motor Federation, State Street Bldg., State & 3rd Sts., Harrisburg.
- RHODE ISLAND:** Joseph E. Connell, R. I. Petroleum Industries Comm., 17 Exchange St., Providence.
- SOUTH CAROLINA:** John T. Melton, Jr., c/o South Carolina Petroleum Industries Committee, 900 Liberty Life Bldg., Columbia 7.
- SOUTH DAKOTA:** E. W. Stephens, Secy., South Dakota Petroleum Industries Committee, Hengel Bldg., Pierre.
- TENNESSEE:** Charles C. Gilbert, Jr., c/o Tennessee Petroleum Industries Committee, 510 Cotton States Bldg., Nashville.
- TEXAS:** Carl C. Hardin, Private Truck Owners Assn. of Texas, P. O. Box 1091, Austin.
- UTAH:** Lyle D. Sarvis, c/o Utah State Automobile Assn., 30 East 4th St., South, Salt Lake City.
- VERMONT:** William L. McKee, Vermont Petroleum Industries Committee, 52 State St., Montpelier.
- VIRGINIA:** John E. Raine, c/o Automotive Trade Assn. of Virginia, 1800 W. Grace St., Richmond.
- WASHINGTON:** Douglass Shelor, c/o Automobile Club of Washington (AAA), 1109 Pine St., Seattle 1.
- WEST VIRGINIA:** Francis C. Farley, c/o West Virginia Petroleum Assn., Rm. 709, Atlas Bldg., Charleston 1.
- WISCONSIN:** Wm. KasaKaitas, 18 S. Thornton, Madison, Wisc., Farm Bureau Federation.
- WYOMING:** Fred E. Woodring, Wyoming Trucking Assn., 628 W. Yellowstone St., Casper.

SAE LOCAL SECTIONS AND GROUPS

- ATLANTA:** Jack S. Reid, Wagstaff Motor Co., Inc., 887 Spring St., N. W., Atlanta, Ga.
- BALTIMORE:** Robert M. Foster, R. F. D. 4, Box 925, Annapolis, Md.
- BRITISH COLUMBIA:** John B. Tompkins, Westrade Publications, 207 W. Hastings St., Vancouver, B. C., Canada.
- BUFFALO:** Benjamin Fuente, Houde Engrg. Div., Houdaille-Hershey Corp., 537 E. Delavan Ave., Buffalo 11, N. Y.
- CANADIAN:** A. L. Gray, Jr., Gray Forgings & Stampings, Ltd., St. Clarens Ave. & Dupont St., Toronto, Ont., Canada.
- CENTRAL ILLINOIS:** Harlow H. Piper, Caterpillar Tractor Co., Peoria, Ill.
- CHICAGO:** F. E. Ertzman, Chicago Section, SAE, 1420 Fisher Bldg., 353 S. Dearborn St., Chicago, Ill.
- CINCINNATI:** Lape W. Thorne, c/o Lake GMC Truck Sales, Inc., 4526 Chickering Ave., Cincinnati 32, Ohio.
- CLEVELAND:** Mrs. Ethel M. Black, Cleveland Section, SAE, 7016 Euclid Ave., Room 210, Cleveland 3, Ohio.
- COLORADO:** Robert F. Brown, Univ. of Colorado, Mech. Engrg. Dept., Room 207, Engrg. II, Boulder, Colo.
- DAYTON:** Thomas O. Mathues, Inland Mfg. Div., General Motors Corp., P. O. Box 1050, Dayton 1, Ohio.
- DETROIT:** Mrs. S. J. Duvall, 100 Farnsworth Ave., Detroit 2, Mich.
- HAWAII:** Ronald A. Henderson, American Trailer & Engrg. Co., Ltd., P. O. Box 35, Honolulu, T. H.
- INDIANA:** Donald S. Bowman, Columbia Transp. Serv., Inc., 833 E. South St., Indianapolis 25, Ind.
- KANSAS CITY:** Kenneth J. Holloway, Civil Aeronautics Administration, 8th Floor, City Hall, Kansas City 6, Mo.
- METROPOLITAN:** F. F. Smith, Society of Automotive Engineers, 29 West 39th St., New York 18, N. Y.
- MID-CONTINENT:** W. F. Ford, Continental Oil Co., Ponca City, Okla.
- MID-MICHIGAN:** M. D. McCuen, Oldsmobile Div., General Motors Corp., Lansing 21, Mich.
- MILWAUKEE:** Christy L. Spexarth, Harley-Davidson Motor Co., 3700 W. Juneau Ave., Milwaukee 1, Wis.
- MOHAWK-HUDSON:** Donald C. Peroutky, Engr., General Electric Co., 1 River Rd., Schenectady, N. Y.
- MONTREAL:** F. H. Moody, Imperial Oil, Ltd., P. O. Box 310, Montreal, Quebec, Canada.
- NEW ENGLAND:** James K. Miller, Wagner Electric Corp., 796 Huntington Ave., Boston 15, Mass.
- NORTHERN CALIFORNIA:** L. L. Moore, Winslow Engrg. Co., 4069 Hollis St., Oakland 8, Calif.
- NORTHWEST:** Allan D. McLean, Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle 11, Wash.
- OREGON:** Clarence Bear, 2948 N. E. 24th Ave., Portland 12, Ore.
- PHILADELPHIA:** A. M. Miley, Electric Storage Battery Co., 19th & Allegheny Ave., Philadelphia 32, Pa.
- PITTSBURGH:** K. G. Scantling, Equitable Auto Co., 214 N. Lexington Ave., Pittsburgh 8, Pa.
- ST. LOUIS:** M. C. Alves, Union Electric Co. of Mo., 315 N. 12th Blvd., St. Louis 1, Mo.
- SALT LAKE:** Richard Ostlund, 2205 E. 17th S., Salt Lake City, Utah.
- SAN DIEGO:** Joseph S. Skurky, Solar Aircraft Co., 2200 Pacific Highway, San Diego 12, Calif.
- SOUTHERN CALIFORNIA:** Paul L. Garver, Dept. of Public Utilities & Transp., City Hall, Los Angeles, Calif.
- SOUTHERN NEW ENGLAND:** Robert E. Johansson, Pratt & Whitney Aircraft Div., United Aircraft Corp., 400 Main St., E. Hartford 8, Conn.
- SPOKANE-INTERMOUNTAIN:** Donald E. Majer, Ernie Majer, Inc., W. 726 Third Ave., Spokane 8, Wash.
- SYRACUSE:** Robert S. Root, Lipc-Rollway Corp., 806 Emerson Ave., Syracuse 1, N. Y.
- TEXAS:** Frank V. Esden, 910 N. Peak St., Dallas 4, Texas.
- TWIN CITY:** Newman A. Hall, Prof., Univ. of Minnesota, 203 Mech. Engrg. Bldg., Minneapolis 14, Minn.
- VIRGINIA:** Harold N. Tyler, Jr., Tyler Oil & Chemical Corp., 844 Hermitage Rd., Richmond, Va.
- WASHINGTON:** Thomas W. Bishton, D. C. Government, City Refuse Div., 800 Indiana Ave., N. W., Washington 1, D. C.
- WESTERN MICHIGAN:** Gaylord E. Smith, Muskegon Piston Ring Co., Sixth & Alpha Sts., Muskegon, Mich.
- WICHITA:** Harold G. Dick, Spines Clothing Co., 111 W. Douglas, Wichita, Kan.
- WILLIAMSPORT:** Horace W. Epler, Locomotive Spencer Div., Avco Mfg. Corp., Williamsport 38, Pa.

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ember, 1951

Wagner Air Brakes



**"help hold our
maintenance to an
absolute minimum
in our more than
30,000,000 miles
a year operation"**



MARK S. BORLAND
Watson Bros.
Transportation Co., Inc.

Safe, trouble-free, dependable brakes are an all-important consideration in the profitable operation of over-the-road fleets. Today, loads are heavier ... runs are longer ... and competition is keener. Vehicles "laid up" for repairs because of accidents caused by faulty brakes mean lost revenue. Be sure of your brakes—install Wagner Air Brakes and you will find your brake maintenance costs going down and your payload profits going up.

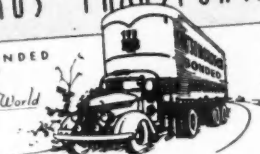
Thousands of heavy-duty vehicles equipped with Wagner Air Brakes travel many millions of safety miles each year. For real brake economy equip your fleet with Wagner Air Brakes or when ordering new vehicles specify WAGNER—the only system with the Rotary Air Compressor.

Wagner Air Brake Users are our Biggest Boosters.

WATSON BROS. TRANSPORTATION CO. INC

U S CUSTOM BONDED
ESTABLISHED 1928

"Twice around the World"



GENERAL OFFICES 809 10 14TH STREET
OMAHA, 2 NEBRASKA

"Every Twenty-four Hours"

October 3, 1950.

Wagner Electric Corporation
715 North 17th Street
Omaha, Nebraska

Gentlemen:

I am happy to advise that our company has been a user of Wagner Air Brake equipment for many years. We have found your equipment to be of the highest quality. We particularly want to mention the very efficient operation of your rotary compressor.

In a business like ours, operating in excess of thirty million miles a year from Chicago, Illinois to Los Angeles, California and from Minneapolis-St. Paul, Minnesota to St. Louis, Missouri on daily schedules, it is essential to hold our maintenance cost to an absolute minimum.

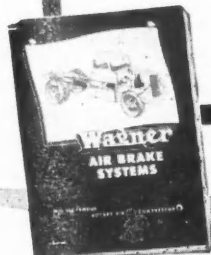
We have found that your Wagner rotary compressors require a minimum of maintenance and have played a large part in reducing our over-all maintenance cost.

Yours very truly,

WATSON BROS. TRANSPORTATION CO., INC

Mark S. Borland
MARK S. BORLAND, Purchasing Agent

MSB:er



Write Today for Bulletin KU-201

Wagner Electric Corporation

6470 PLYMOUTH AVE., ST. LOUIS 14, MO., U. S. A.

(Branches in Principal Cities and in Canada)

LOCKHEED HYDRAULIC BRAKE PARTS and FLUID ... NoRoL ... CoMax BRAKE LINING ... AIR BRAKES ... TACHOGRAPHS ... ELECTRIC MOTORS ... TRANSFORMERS ... INDUSTRIAL BRAKES



K51-12

BUSES—continued

Cub Industries, Inc., 311 S. Company St., White Pigeon, Mich.
 Dodge Div. Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich. (School.)
 Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
 Fitzjohn Coach Co., Muskegon, Mich.
 Flxible Co., 326 N. Water St., Loudonville, Ohio.
 GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich. "Yellow Coach."
 General American Aerocoach-Motor Coach Div., General American Transportation Corp., 135 S. La Salle St., Chicago, Ill. "Aerocoach."
 Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
 International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill. (School.)
 Kalamazoo Coaches, Inc., 5260 Lovers Lane Road, Kalamazoo, Mich. "Pony Cruiser." "Kalamazoo Cruiser."
 Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle 8, Wash.
 Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y. (Gasoline and Diesel.)
 Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind. (Trolley coaches.)
 Reo Motors, Inc., 1331 S. Washington St., Lansing, Mich.
 Southern Coach Mfg. Co., Evergreen, Ala.
 Spartan Coach & Mfg. Co., 613 N. Centerville Rd., Sturgis, Mich.
 Studebaker Corp., 635 S. Main St., South Bend 27, Ind. (Chassis only.)
 Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio.
 Transit Bus, Div. Checker Cab Mfg. Corp., 2016 N. Pitcher St., Kalamazoo, Mich.
 Twin Coach Co., 850 W. Main St., Kent, Ohio. (Propane, gasoline, Diesel and LP Gas buses and electric trolley buses.)
 White Motor Co., 1455 E. 185th St., Cleveland 1, Ohio.

BUSHINGS, See also Bearings and Bushings

BUSHINGS, Bronze

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
 American Motor Products Co., Fond du Lac, Wis. "Ampco."
 American Non-Gran Bronze Co., Lancaster Ave., Berwyn, Pa.
 Ampco Metal, Inc., 1737 S. 38th St., Milwaukee 15, Wis. (Also aluminum bronze.)
 Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
 Automotive Research & Mfg. Co., 83-05 76th Ave., Glendale 27, N. Y.
 Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (For starters and generators.)
 Bearium Metals Corp., 268 State St., Rochester 14, N. Y.
 Beckett Bronze Co., 20th & S. Walnut Sts., Muncie, Ind.
 Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 25, Mich.
 Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland, Ohio.
 Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.
 Burlington Brass Works, Burlington, Wis.
 Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
 Dayton Bronze Bearing Co., 303 Keowee St., Dayton, Ohio.
 Erie Bronze Co., 355 W. 19th St., Erie, Pa.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Generator, starter and distributor.)
 Federal-Mogul Corp., 11081 Shoemaker Rd., Detroit 13, Mich.
 Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Calif. "F.M."
 Grand Haven Brass Foundry, 230 N. Hopkins St., Grand Haven, Mich.
 Guaranteed Parts Co., Seneca Falls, N. Y. (For generators and starters.)
 Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit, Mich.
 Johnson Bronze Co., 510 S. Mill St., New Castle, Pa.
 Kendrick Mfg. Co., 2705 Wight St., Detroit, Mich.
 Markey Bronze Bushing Co., Delta, Ohio.
 Moccasin Bushing Co., Chestnut & 20th Sts., Chattanooga, Tenn.

Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Durex," "Moraine."
 Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich. "Streamline."
 National Formetal Co., 6600 Metta Ave., Cleveland 14, Ohio. "Easy-Beam."
 Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y. (Connecting rod and piston pin.)
 Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa.
 Randall Graphite Bearings, Inc., Greenbaum & Lake Sts., Lima, Ohio.
 Standard Brass Works, 1810 W. St. Paul Ave., Milwaukee, Wis.
 Superior Brass Works, 312 S. Crawford St., Detroit 17, Mich.
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
 United American Metals Corp., 200 Diamond St., Brooklyn 22, N. Y. "Autocrat," "Centrifcast," "XX Autocrat."
 Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 9, Wis.
 Wakefield Bearing Corp., 29 Foundry St., Wakefield, Mass. "Coprex."

BUSHINGS, Rubber

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Steelatic."
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
 Bushings, Inc., 4358 Coolidge Highway, Royal Oak, Mich. "Rubberflex."
 Doan Mfg. Corp., 1761 London Road, Cleveland 12, Ohio. "Armor-Flex."
 Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Harris Products Co., 5105 Cowan Ave., Cleveland, Ohio.
 Hewitt Rubber Div., Hewitt-Robins Inc., 240 Kensington Ave., Buffalo 5, N. Y.
 Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
 Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Bonded to metal.)
 Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
 Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
 Roberts Toledo Rubber Co., Prospect & MC R.R., Toledo 6, Ohio.
 Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
 Santay Corp., 351 N. Crawford Ave., Chicago 24, Ill. "Shock-Proof."
 Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

BUSHINGS, Steel

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
 Bard Mfg. Co., Rogersford, Pa.
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
 Cleveland Graphite Bronze Co., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
 Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
 Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog."
 King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
 McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
 Machine Products Co., 1235 Washington Blvd., Pittsburgh 6, Pa.
 Marquette Metal Products Co., 1145 Galewood Drive, Cleveland 10, Ohio.
 National Formetal Div., Federal Mogul Corp., 6600 Metta Ave., Cleveland 14, Ohio.
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
 Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 9, Wis.
 Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

BUTANE, See Fuels, Engine

CABINETS, Accessory and Parts

Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
 Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
 Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
 Central Sheet Metal Works, Inc., 2647 Clybourn Ave., Chicago 14, Ill.

Cutler Metal Products Co., 1029 Line St., Camden, N. J.
 Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM."
 Gilbert & Barker Mfg. Co., Springfield, Mass. "Calco-Meter," "Gilbarco."
 Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
 Lyon Metal Products, Inc., 2981 Montgomery St., Aurora, Ill.

CABLE, Brake Control (With Conduit)

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
 American Chain & Cable Co., Automotive & Aircraft Div., 601 Stephenson Bldg., Detroit 2, Mich. "Tru-Lay." (Using "Tru-Loc" fittings.)
 Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
 Eis Automotive Corp., Middletown, Conn.
 Gwilliam Co., 860 Furman St., Brooklyn 2, N. Y. "Rowden."
 Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich.
 Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.

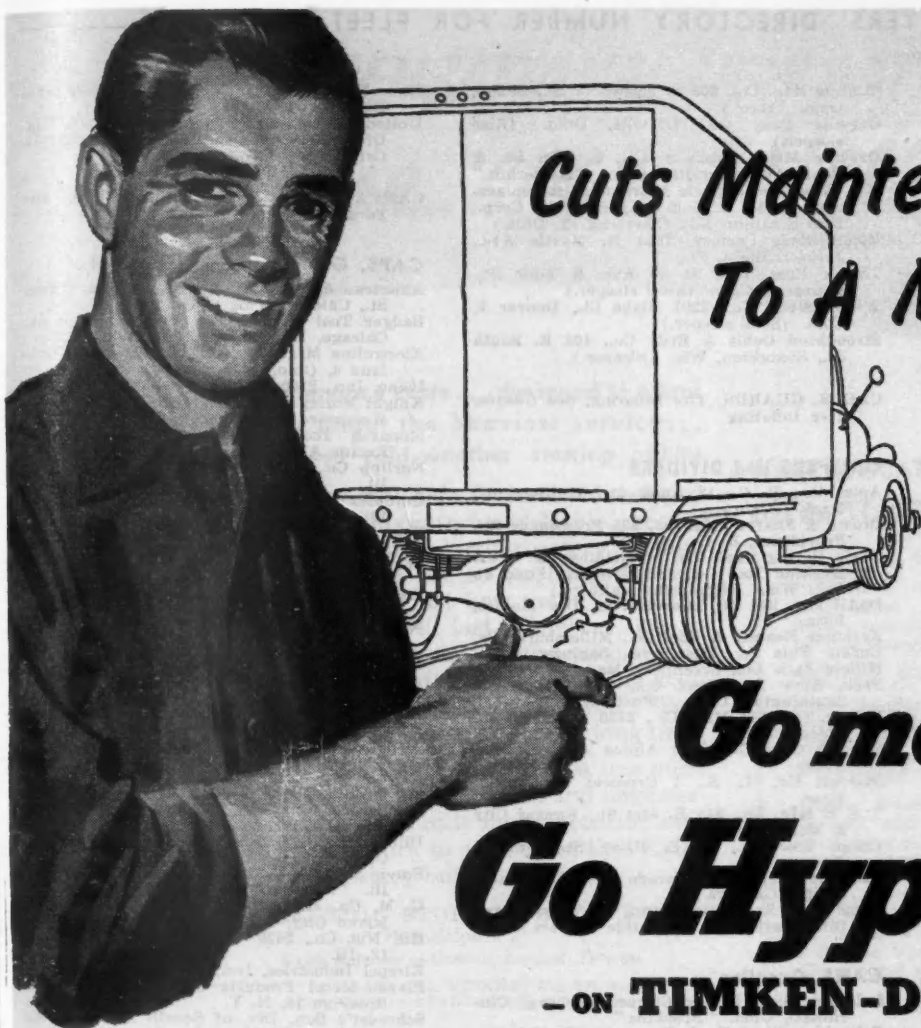
CABLE, Ignition, Starting and Lighting

(In bulk, length on spools, rolls, etc.)
 American Electric Cable Co., 181 Appleton St., Holyoke, Mass. "Lusterlac."
 Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
 Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
 Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
 Clark Cable Corp., 11201 Berea Rd., Cleveland 2, Ohio.
 Crescent Co., Pawtucket, R. I. "Wiry Joe."
 Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich. "Auto-Lite."
 Electric Auto-Lite Co., Wire & Cable Div., Hazleton, Pa.
 Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
 General Electric Co., Const. Material Dept., Bridgeport, Conn. (Ignition.)
 Jordan Electrical Mfg. Co., 222 N. 2 St., Minneapolis 1, Minn.
 Kathonode Corp., 1st National Bank Bldg., St. Paul 1, Minn.
 Kerite Co., 30 Church St., New York 7, N. Y. (Ignition.)
 Lenhart Mfg. Co., Hamburg, Pa.
 Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.
 Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Cal. "Masco."
 Ohio Parts Co., Theresa St. & Chontea Ave., St. Louis 3, Mo.
 Packard Electric Div., General Motors Corp., Warren, Ohio.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 82, N. Y.
 Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
 Royal Electric Co., Pawtucket, R. I.
 Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
 Thompson-Nenylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill. "T-N."
 Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Triaco."
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "Laytex."
 Walker Bros., River & End Sts., Conshohocken, Pa. "Walker of Conshohocken."
 Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
 White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
 Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

CABLES, SPEEDOMETER, See Speedometer Cables

CABLES, Storage Battery

(Complete with terminals)
 American Electric Cable Co., 181 Appleton St., Holyoke, Mass. "Lusterlac."
 Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
 Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
 Bowers Battery & Spark Plug Co., Reading, Pa.



***Cuts Maintenance
To A Minimum!***

***Go modern-
Go Hypoid!***

- ON TIMKEN-DETROIT

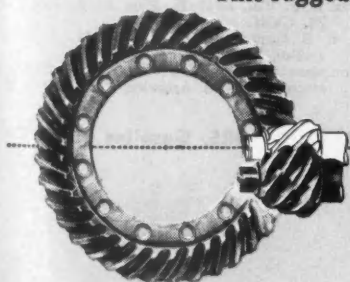
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Today's military and civilian needs have placed a heavy load on the trucking industry—speeding the flow of goods between farm, city and industry! And a truck in the shop means lost time—and money—for both the truckers and the people they serve. That's why more and more foresighted trucking men are standardizing on Hypoid-Geared Timken-Detroit Axles.

This rugged axle gearing provides peak

performance—at bedrock maintenance cost. Proved by billions of ton-miles of on-the-job operation, dependable Hypoid Gearing handles plenty of power, with strength to stand the toughest type of day-to-day service.

If you build or buy trucks you'll be wise to standardize on Timken-Detroit Axles and Brakes, too! They'll pay for themselves with longer life, greater efficiency, less maintenance!



**HYPOID
HEAVY-DUTY GEARING**

The offset Hypoid pinion is bigger and stronger. Bearings are bigger. More teeth are in contact, reducing loading per unit of contact area. Torque-transmitting capacity is increased. Slower gear ratios are practical without loss of strength.



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AXLES

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WORLD'S LARGEST MANUFACTURER OF AXLES FOR TRUCKS, BUSES AND TRAILERS

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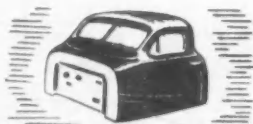
CABLES, Storage Battery—continued

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
 Clark Cable Corp., 11201 Berea Rd., Cleveland 2, Ohio. (Ignition.)
 Crescent Co., 75 Eagle St., Pawtucket, R. I. "Wiry Joe."
 Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich. "Auto-Lite."
 Electric Auto-Lite Co., Wire & Cable Div., Hazleton, Pa.
 Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
 Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
 Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
 Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.
 Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Calif.
 National Ignition Mfg. Co., 521 W. 23 St., New York 11, N. Y.
 Ohio Parts Co., Theresa St. & Chonteau Ave., St. Louis 3, Mo.
 Packard Electric Div., General Motors Corp., Warren, Ohio.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
 Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill. "T-N."
 Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Triple."
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "Laytex."
 Walker Bros., River & End Sts., Conshohocken, Pa. "Walker of Conshohocken."
 Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
 White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
 Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

CABLES, Welding

(See also Hose, Welding)

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42 St., N. Y. 17, N. Y. "Airco."
 American Steel & Wire Co., Rockefeller Bldg., Cleveland 13, Ohio. "Amerclad."
 Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
 Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdett."
 Crescent Co., 20 Central Ave., Pawtucket, R. I.
 General Cable Co., 420 Lexington Ave., New York 17, N. Y.
 Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland 1, Ohio. "Stable-Arc."
 National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG."
 Roebbing's Sons Co. John A., 640 S. Broad St., Trenton, N. J.

CABS, Truck Body (Wood and Metal)

Autocar Co., Lancaster Ave., Ardmore, Pa. "Driver Cab." (Metal.)
 Brandt, Inc., Charles T., Body Div., 201 N. Haven St., Baltimore 24, Md.
 Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Metal; also sleeper.)
 Couse Mfg., Inc., 300 Passaic St., Newark 4, N. J. (Armored.)
 Cutler Metal Products Co., 1025 Line St., Camden, N. J.
 Hoosier Bodies, Inc., P. O. Box 277, Richmond, Ind.
 Hughes-Keenan Corp., Burkett Body Div., Delaware, Ohio.
 McLaughlin Body Co., 2480 Third Ave., Moline, Ill.
 Masterbilt—See Orrville Metal Specialty Co.
 Montpelier Mfg. Co., Montpelier, Ohio.

Mullins Mfg. Co., 605 S. Ellaworth St., Salem, Ohio. (Steel.)
 Orrville Body Co., Orrville, Ohio. (Also sleeper.)
 Orrville Metal Specialty Co., S. Elm St. & Penn Ave., Orrville, Ohio. "Masterbilt." (Steel sleeper; sole distributors to replacement trade, Benhoff Body & Equip. Corp., 2339 Scranton Rd., Cleveland 13, Ohio.)
 Rivers Body Factory, 2304 N. Myrtle Ave., Jacksonville 4, Fla.
 Timpte Bros., Inc., E. 40 Ave. & York St., Denver 5, Colo. (Steel sleeper.)
 Winter-Weiss Co., 2201 Blake St., Denver 2, Colo. (Steel sleeper.)
 Stroughton Cable & Body Co., 408 E. South St., Stoughton, Wis. (Sleeper.)

CAGES, GUARDS, Tire Inflating, See Guards, Tire Inflating

CALIPERS and DIVIDERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass. (Calipers.)
 Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
 Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 142 Doty St., Fond du Lac, Wis. (Micrometer calipers.)
 DoAll Co., 254 N. Laurel Ave., Des Moines, Iowa.
 Keystone Reamer & Tool Co., Millersburg, Pa.
 Lufkin Rule Co., Hess Ave., Saginaw, Mich.
 Millers Falls Co., Greenfield, Mass.
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto."
 Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
 Swedish Gage Co., 8900 Alpine Ave., Detroit, Mich.
 Starrett Co., L. S., 1 Crescent St., Athol, Mass.
 T & H Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Calipers.)
 Union Tool Co., 48 E. River St., Orange, Mass.
 Vard, Inc., 2981 E. Colorado St., Pasadena 8, Calif. (Calipers.)
 Woodworth Specialties Corp., 182 Broad Ave., Binghamton, N. Y. (Inside calipers.)

CANS, Gasoline

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
 Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
 Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago, Ill. "Diener Protection."
 Dover Stamping Co., 24 Lake St., Somerville, Mass.
 Eagle Mfg. Co., Wellsburg, W. Va. "Eagle," "Two-In-One."
 General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich. "Safeguard."
 Huffman Mfg. Co., Davis & Gilbert Aves., Dayton 1, Ohio.
 Justrite Mfg. Co., 2061 N. Southport Ave., Chicago 14, Ill.
 National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
 New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
 Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
 United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."

CANS, Oiling

Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
 Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
 Eagle Mfg. Co., Wellsburg, W. Va.
 Grayson Tool Co., 1412 W. Second St., Hastings, Nebr.
 Lidseen, Inc., Gustave, 832 S. Central Ave., Chicago, Ill. "G. L.," "Lidseen."
 Marvin Mfg. Co., W. B., W. Court St., Urbana, Ohio.
 National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
 Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
 Wall Mfg. Supply Co., P. O. Box 71, Grove City, Pa. "Superior."

CANS, Radiator Filling

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
 Dover Stamping Co., 24 Lake St., Somerville, Mass.
 Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
 National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."

New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
 United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."

CANVAS, See Fabric, Coated Cloth, also Tarpaulins

CAPS, Gasoline Tank (Locking)

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. "King Bee."
 Badger Tool & Mfg. Co., 1601 W. Polk St., Chicago, Ill.
 Electrolite Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
 Ivano, Inc., 2100 Indiana Ave., Chicago 16, Ill.
 Knight-Morley Corp., 312 Garfield Bldg., 4612 Woodward Ave., Detroit 1, Mich.
 Monarch Tool & Machinery Co., 3435 S. Racine Ave., Chicago 8, Ill.
 Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
 Quinplex Corp., 429 Fourth Ave., Pittsburgh 19, Pa.
 Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
 Snap-Up Gas Cap Co., 2528 Greenup Ave., Ashland, Ky. (Electrically controlled.)
 Stant Mfg. Co., 1620 Columbia St., Connersville, Ind. "Dual-Loc."
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. "National."
 Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohio.

CAPS, Tire Valve

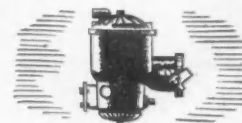
Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
 Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
 Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
 Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
 Emvir Mfg. Co., 1705 Lincoln St., Evanston, Ill. "Autocap." (Automatic.)
 G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
 Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
 Kirspel Industries, Inc., Livingston, N. J.
 Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
 Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
 Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
 Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

CARBON MONOXIDE INDICATORS, See Indicators, Carbon Monoxide

CARBON MONOXIDE REMOVING SYSTEMS, See Exhaust Gas Removing Systems

CARBURETORS, Butane, Propane, LPG

American Liquid Gas Corp., 1109 Santa Fe Ave., Los Angeles 21, Calif. "Algas."
 Century Gas Equipment Co., 11188 Long Beach Blvd., Lynwood, Calif.
 Dix Mfg. Co., 3447 E. Pico Blvd., Los Angeles 23, Calif.
 J & S Carburetor Co., 2634 N. Beckley St., Dallas 2, Tex.
 Roadmaster Products Co., 3350 San Francisco Rd., Los Angeles, Calif.

CARBURETORS, Gasoline

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Stromberg." (Aircraft and automotive for replacement sales.)
 Carter Carburetor Corp., 2940 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
 Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Stromberg." (For equipment sales.)
 Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
 Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill. "Marvel," "Rayfield," "Schebler," "Johnson."

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A new battery with new features—developed in the research laboratories of Exide, creator of the first automobile starting battery. Results of continuing tests are so startling that we hesitate to predict just how many years the ULTRA START will last. However, we do know this: equip your trucks with Exide ULTRA START Batteries, and barring accidents or downright neglect, you won't have to replace those batteries for a long, long time.

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THREE NEW BATTERY DEVELOPMENTS GIVE ULTRA START AMAZINGLY LONGER LIFE

SILVIUM — The Corrosion-Resistant Grid Alloy! ... Defeats a battery's most destructive enemy—grid corrosion caused by overcharging.

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CARBURETORS, Gasoline—continued

Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.
 Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo, Ohio.
 Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.
 "Zenith." (Also "Zenith Gov-U-Retor." Combination carburetor and governor.)

CARBURETOR PARTS

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago, 16, Ill. "Quality Built."
 Automotive Research & Mfg. Co., 88-05 76th Ave., Glendale 27, N. Y. "Arm-co."
 Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Stromberg." (For replacement sales.)
 Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
 Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Stromberg." (For equipment sales.)
 Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
 Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
 International Spare Parts Co., 5-01 46th Road, Long Island City, N. Y.
 Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill. "Marvel," "Rayfield," "Schebler," "Johnson."
 Octa-Gane, Inc., 605½ W. Las Tunas Drive, San Gabriel, Calif. "Gane." (Needles.)
 P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
 Precision Automotive Components Co., 7263 Lansdowne St., St. Louis 19, Mo. "Pacco."
 Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.
 Simmons Mfg. Co., Ashland, Ohio.
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside N. Y.
 Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo, Ohio.
 Van Bergen & Greener, Inc., 1619 N. Hoyne Ave., Chicago 47, Ill.
 Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.
 "Zenith." (Also "Zenith Gov-U-Retor." Combination carburetor and governor.)

CARRIERS, Storage Battery

Berkson Products, Inc., 2014 N. Major Ave., Chicago 39, Ill.
 Bishman Mfg. Co., Osseo, Minn.
 Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
 Central Equipment Co., 1020 W. Adams St., Chicago 7, Ill. "Economy," "Safety," "Victory."
 Champ Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
 Duro Metal Parts Co., 2649 N. Kildare Ave., Chicago 39, Ill.
 Houser Engng. & Mfg. Co., Bluffton, Ind.
 Kreger Mfg. Co., L. F., 540 W. 36th St., Chicago 16, Ill. "Safe-Tee Grip."
 Look & Co., R. J., 843 N. Gay St., Baltimore, Md. "Lightnin."
 Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Mueller Electric Co., 1583 E. 31st St., Cleveland 14, Ohio. "Cock-Eyed."
 Murray Corp., Towson 4, Md.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
 Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Safety Grip Mfg. Co., 620 N. Pine St., Bethlehem, Pa.
 Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
 Scharrow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
 Thompson-Neaylon Mfg. Co., 3535 S. Morgan St., Chicago 9, Ill. "T-N."
 Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Fold-tite."
 Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
 Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis. "Wiseco."

CARRIERS, Tire

Clark Bros. Mfg. Co., 225 San Juan Rd., Watsonville, Calif. (For trucks, buses and trailers.)
 Crosby Co., 183 Pratt St., Buffalo, N. Y.
 Nash Bros. Co., Dewey Ave. & Payne St., Evanston, Ill. (For trucks and trailers.)
 Sudenga Iron Works, George, Iowa. (Side mounted, for trucks.)

CEMENT, Brake Lining

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
 Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
 Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
 Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
 Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.

CEMENT, Cast Iron

(For repairing cracks in castings)

All-State Welding Alloys Co., 273 Ferris Ave., White Plains, N. Y. "Karsal."
 Bell Co., 411 N. Wolcott St., Chicago 22, Ill. "Flare."
 Blue Seal Metals Co., 312 Bankers Bldg., Milwaukee, Wis.
 Obermayer Co., S., 2563 W. 18th St., Chicago 8, Ill. "Easo."
 Sauereizen Cements Co., Sharpsburg Station, Pittsburgh 15, Pa.
 Smooth-On Mfg. Co., 572 Communipaw Ave., Jersey City 4, N. J.
 Tinscher Products Co., Sycamore, Ill.
 U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
 Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Kak Mend."
 Western Kelli-Metal Co., 1140 E. Ellsworth St., Denver 9, Colo. "Kelli-Metal."

CEMENT, GASKET, See Gasket Compounds**CEMENT, Rubber (Liquid)**

Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich.
 Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Flare."
 Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio. "Welltried."
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Fidelity Mfg. Co., Front & Bridge Sts., Catawauqua, Pa. "Alrite," "Fidelity."
 Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
 Gross Mfg. Co., 1711 California St., Monrovia, Calif.
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
 Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio.
 Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
 Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
 Porter Mfg. & Supply Co., 2836 Sunset Blvd., Los Angeles 26, Calif. "Gagacinch." (Synthetic.)
 St. Clair Rubber Co., 440 Jefferson Ave., E., Detroit, Mich. "Clair-Bond."
 So-Lo Works, Inc., Loveland, Ohio.
 Stay-Tite Products Co., 3107 Detroit Ave., Cleveland, Ohio. "Stay-Tite XXX."
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Van Cleef Bros., Inc., 7800 S. Woodlawn Ave., Chicago 19, Ill. "Dutch Brand."
 Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure Rite."

CHAINS, Timing

Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Morse."
 Chain Belt Co., 1733 W. Bruce St., Milwaukee 4, Wis. "Duckworth."
 D & B Mfg. Co., 2312 S. Indiana Ave., Chicago 16, Ill.
 Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
 Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind.
 Hoof Products Co., 6543 S. Laramie Ave., Chicago 33, Ill.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)

Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill. "Silverstreak."
 Morse Chain Co. (Div. Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich. (Sole distributor to replacement trade, Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.)
 Perfection Gear Co., 162nd St. & Vincennes Ave., Harvey, Ill.
 Ramsey Chain Co., Troy Rd., Albany, N. Y.
 Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
 Union Chain & Mfg. Co., Sandusky, Ohio. "American."
 Whitney Chain & Mfg. Co., 237 Hamilton St., Hartford 2, Conn.

CHAINS, Tire

American Chain Div. of American Chain & Cable Co., York, Pa.
 Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
 Campbell Chain Co., York, Pa. "Campbell," "Lug-Reinforced."
 Cleveland Chain & Mfg. Co., Penna. R. R. & Henry St., Cleveland 5, Ohio. "Cleveland-Sterling Wearwell," "Master Grip," "T-Bar."
 Columbus-McKinnon Chain Corp., Tonawanda, N. Y. "Claw."
 Flower City Specialty Co., Rochester, N. Y. (Repair links.)
 Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
 Hodell Chain Co. Div. of National Screw & Mfg. Co., 3924 Cooper Ave., Cleveland 3, Ohio.
 Lloyd Chain Mfg. Co., Fifth & Market Sts., Marysville, Mo.
 McKay Co., 1005 Liberty Ave., Pittsburgh, Pa. "McKay," "Multigrip." (Steel.)
 Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
 Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Peerless," "Superior," "Kwick-On," "Gumbo."
 St. Pierre Chain Corp., Frank St., Worcester, Mass.
 Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
 Seattle Chain & Mfg. Co., 6921 E. Marginal Way, Seattle 8, Wash. "Round."
 Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind. "Taylor-Made," "Tayco."
 Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
 Woodhouse Chain Works, Third St., Trenton 10, N. J.
 Woodworth Specialties Corp., 182 Broad St., Binghamton, N. Y.

CHAINS, ADJUSTERS, See Adjusters, Chain**CHARGERS, Battery (Slow)**

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Untron."
 Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo. "Handy."
 Blits Electric Co., 5713 Wentworth Ave., Chicago, Ill.
 Edison, Inc., Thomas A., West Orange, N. J. (Trickle.)
 Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio. (Motor generator type.)
 Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
 General Electric Co., Apparatus Dept., 1 River Road, Schenectady 5, N. Y. "Tungar."
 Heyer Products Co., 471 Cortlandt St., Belleville 9, N. Y. (Bulb and rapid type.)
 Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
 Kathanode Corp., 1201 First National Bank Bldg., St. Paul, Minn.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 McColpin-Christie Corp., 3410 W. 67th St., Los Angeles 43, Calif. "C. & C."
 Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill. (Bulb type.)
 Motor Generator Corp., The Hobart Bros. Co., Hobart Square, Troy, N. Y.
 Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."

EVIDENCE

PILES UP and UP!

**Kellys are the trucker's choice
for low-cost long mileage!**

HERE'S MORE PROOF that Kellys are tops with truckers everywhere! Week after week the letters come in from truck and fleet operators all over the country, giving the kind of practical operating evidence shown here.

STILL MORE PROOF and even *better* proof is

yours, of course, when you put Kellys on your own trucks. See for yourself that Kelly's tough Armorubber tread delivers thousands of extra miles . . . that Kellys take recaps better, give greater *total* mileage. Get your own money-saving evidence of how Kelly's 57 years of tire-building know-how pays off!



KELLYS COST LESS PER MILE: "We are operating some 22 pieces of equipment on which are mounted 156 tires. During ten years, we have used all the major brands of tires. We are now standardizing on Kelly Tires, for we have found that our cost per mile on these tires is less than any of the other tires we have tried. Tandem axles are very hard on tires as you know, but we are very happy with the way our Kellys are performing on these rigs!"

J. Jack Willard,

Willard Ready Mixed Concrete, Lynwood, California



FLEET NOW 100% KELLY-EQUIPPED: "I wish to report on the satisfactory service and performance that Kelly Tires have given on our fleet of trucks. Our fleet is now 100% Kelly-equipped. Kelly's performance on mileage in all types of operation from start-and-stop deliveries to our trailer trucks on the highways, has proven better than that of any other tires used."

Edward E. Phillips,

J. W. Phillips & Sons, Petersburg, Va.

*Truc Trac
Delivery*

*Truc Trac
Highway*

*Commercial
Heavy Tread*

*Dual Trac
Special Service*

*Lug Trac
Special Service*



CHARGERS, Battery (Slow)—continued

Richardson-Allen Corp., 116-15 15th Ave., College Point, L. I., N. Y.
 Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio. "Electroz."
 Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Silver Beauty." (Selenium & bulb type.)
 Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Rectox." (Copper oxide; also motor generator type.)
 Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio. (Bulb and rapid type.)
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. (Bulb and rapid type.)

CHARGERS, Battery (Fast)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
 Associated Equipment Co., 5147 Natural Bridge Ave., St. Louis 15, Mo. "Hartman."
 Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
 Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
 Bishman Mfg. Co., Osseo, Minn.
 Blits Electric Co., 5713 Wentworth Ave., Chicago, Ill.
 Bowers Battery & Spark Plug Co., Reading, Pa.
 Bowser Inc., 1302 E. Creighton Ave., Ft. Wayne 5, Ind.
 Edison, Inc., Thomas A., West Orange, N. J.
 Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa. "Exide."
 Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.
 General Electric Co., Apparatus Dept., 1 River Road, Schenectady 5, N. Y.
 Gould-National Batteries, Inc., E-1201 First National Bank Bldg., St. Paul 1, Minn.
 Grant Storage Battery Co., 226 N. 2 St., Minneapolis, Minn.
 H & H Products Mfg. Co., Los Angeles 13, Calif.
 Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo.
 Hartman Corp. of America, 5147 Natural Bridge Ave., St. Louis 15, Mo.
 Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn. "Nu-Way."
 King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.
 Kathanode Corp., 1201 First National Bank Bldg., St. Paul, Minn.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 McCollip-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C & C Charge-A-Lyser."
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo.
 Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City, Okla.
 Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."
 Richardson-Allen Corp., 15 W. 20th St., New York 11, N. Y.
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 Weldenhoff, Inc., Joseph, Algona, Iowa. (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)
 Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

CHUCKS, Air (Tire Inflating)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
 Amesco, Inc., 145 S. Monterey Ave., Villa Park, Ill.
 Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
 Coronet Parts Mfg. Co., 951 Shepard Ave., Brooklyn 8, N. Y.
 Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
 Drugg Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. "Tru-Flate."
 G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
 Peters & Russell, Inc., 501 W. Liberty St., Springfield, Ohio. "Par."
 Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
 Romort Mfg. Co., Oakfield, Wis.
 Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y. "Dubitite."

CIRCUIT Breakers, See Breakers, Circuit

CLAMPS, Battery Hold Down

Bishman Mfg. Co., Osseo, Minn.
 Callanan Mfg. Co., 16 Walter St., Salem, Mass. "Doublex."

Champ-Items, 6191 Maple Ave., St. Louis 14, Mo.
 Cuyahoga Spring Co., 10230 Berea Rd., Cleveland 2, Ohio.
 Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill.
 Look & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
 Murray Corp., Towson 4, Md.
 Safety Grip Mfg. Co., 620 N. Pine St., Bethlehem, Pa.
 Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
 Scharrow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
 Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
 Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill.
 Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. "National."
 Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

CLAMPS, Brake Cylinder (Hydraulic)

Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif.
 Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
 Curtiss & Smith Mfg. Corp., 125 E. 4th St., Pottstown, Pa. "C S."
 Eis Automotive Corp., Middletown, Conn.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Murray Corp., Towson 4, Md.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 Rineck-McIlwaine, Inc., 16 Hudson St., New York, N. Y. "Rimac."
 Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

CLAMPS, Brake Lining

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
 Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio. "Hargrave."
 Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
 Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Cal. "Thomason."

CLAMPS, Hose

American Stamping Co., 310 E. Burnham St., Battle Creek, Mich.
 Blaisdell Mfg. Co., 1350 Coronado Ave., Long Beach 4, Calif. "K-C."
 Blaisdell Mfg. Co., 1404 Alamos Ave., Long Beach 13, Calif.
 Breeze Corp., Inc., Aircraft Standard Parts Div., 41 S. Sixth St., Newark 7, N. J. "Aero-Seal."
 Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.
 Carson Mfg. Co., 431 W. 28th St., New York 1, N. Y.
 Central Equipment Co., 1020 W. Adams St., Chicago 7, Ill. "Allsize," "Inner-Seal," "860."
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
 Clancy, Inc., J. R., 1010 W. Belden Ave., Syracuse, N. Y. "Sure-grip."
 Corbin Hose Clamp, Div. American Hardware Corp., New Britain, Conn.
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everhite." (Radiator: "Everhot" heater.)
 Exola Products, Inc., 2423 E. 57th St., Los Angeles 11, Calif. "King Clamp."
 Garrett Co., George K., D & Toga Sts., Philadelphia 34, Pa. "Diamond G."
 Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
 Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
 Hunt & Son, C. B., 1918 E. Pershing St., Salem, Ohio. "Quick as Wink."
 Ideal Corp., 435 Liberty Ave., Brooklyn 1, N. Y. "Fitzall," "Ideal," "Snaplock," "Airline," "Wireseal," "Wraplax."
 Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
 Look & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
 Marman Products Co., 940 W. Florence Ave., Inglewood, Cal.
 Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
 Mulconroy Co., 54th & Jefferson Sts., Philadelphia, Pa.
 Murray Corp., Towson 4, Md. "Wire Grip."

Perfect Parts, Inc., 53 Amsterdam Ave., New York, N. Y.
 Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
 Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
 Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
 Tinnerman Products, Inc., P. O. Box 683, Dept. 16, Cleveland 1, Ohio. "Speed Clamps."
 Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.
 United Steel & Wire Co., 27 Fonda Ave., Battle Creek, Mich. "Double-Tite."
 Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
 Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., N. Y. 22, N. Y. (Heater.)
 Williams Products Co., H. E., 100 S. Main St., Carthage, Mo.
 Wittek Mfg. Co., 4305 W. 24th Place, Chicago 23, Ill. "Noc-Out," "Star."

CLEANERS, Air, Carburetor

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
 Air Cleaner Service Co., 1717 S. Acoma St., Denver 10, Colo. "Cyclone."
 Dollinger Corp., 20 Center Pk., Rochester 3, N. Y. "Staynew."
 Donaldson Co., 666 Pelham Blvd., St. Paul 4, Minn. "Donaldson Oil Washed."
 Electric & Carburetor Engrg. Co., 2321 E. Eighth St., Los Angeles 21, Calif. "Tat-terfield."
 Fram Corp., East Providence 16, R. I.
 Houdaille-Hershey Corp., North Chicago Div., 1900 Foss Park Ave., North Chicago, Ill.
 Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.
 Red Devil Tools, Coit St., Irvington 11, N. J. (Refills.)
 United Specialties Co., United Air Cleaner Div., 9705 Cottage Grove Ave., Chicago 23, Ill. (Oil.)
 Vortex Co., 121 S. Alexander Ave., Claremont, Cal. (Oil bath.)

CLEANERS, Air (Crankcase Breather)

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
 Fram Corp., East Providence 16, R. I.
 Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.

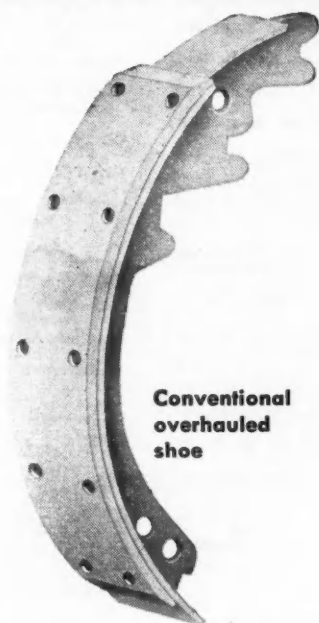
CLEANERS, Carburetor (Chemical)

Commercial Solvents Corp., 17 E. 42 St., New York 17, N. Y. "Norway."
 Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
 Curran Corp., S. Canal St., Lawrence, Mass. "Gunk H-S."
 Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Drew Ameroid."
 Du Bois Co., 1120 W. Front St., Cincinnati 2, Ohio. "Carburex."
 Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y. "FO."
 Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soak."
 Glisten Co., 13 Barnard St., Hillsdale, Mich.
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Dip-Zof."
 Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industrosolv."
 J. P. Manufacturing Co., 330 E. Front St., Youngstown 3, Ohio.
 Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
 Magnus Chemical Co., 185 South Ave., Garwood, N. J.
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Pennsylvania Refining Co., Gumout Div., 2686 Lisbon Rd., Cleveland 4, Ohio. "Penn Drake."
 Rust Master Chemical Co., 56 Creighton St., Boston, Mass. "Carb-Master."
 Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Solvco."
 Turco Products, Inc., 6185 S. Central Ave., Los Angeles 1, Calif.
 United States Avicx Co., 1350 Maple St., Niles, Ohio.
 V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

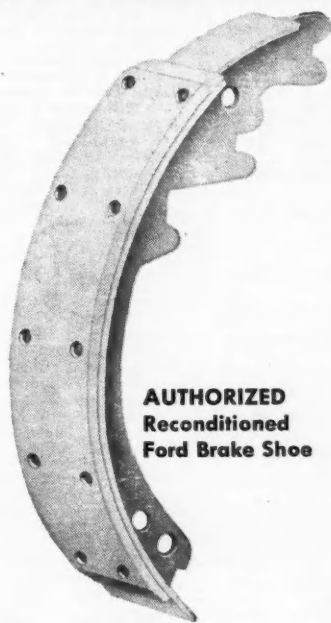
CLEANERS, Chemical—See Solvents, Oil, Carbon & Grease

CLEANERS, COOLING SYSTEM—See Flushers, Radiator and Block (Portable)

FOR FORD FLEET OWNERS WHO WANT TO GET THE MOST FOR THEIR MONEY!



Conventional overhauled shoe



AUTHORIZED Reconditioned Ford Brake Shoe

They look alike...

But Only One is warranted by a Ford-AUTHORIZED Reconditioner to give new brake shoe performance!

ONLY the AUTHORIZED Reconditioned Ford Brake Shoe is warranted by the Ford-Authorized Reconditioner to deliver the *same* safe load-control, the *same* long-lasting dependability as *brand new shoes*! Yet with all their quality AUTHORIZED Reconditioned Ford Brake Shoes cost substantially less than *new* brake shoes.

1. AUTHORIZED Reconditioned Ford Brake Shoes are completely stripped, cleaned and jig tested to print specifications...
2. They are relined with new genuine Ford linings (thoroughly tested in the lab, on test tracks and on the road for wear, heat resistance, smooth, uniform action)...

Look for this emblem →

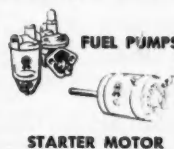
... on the engine and parts you buy. It's backed by the Reconditioner's Warranty. Any defect in material or workmanship appearing in 90 days or 4000 miles... whichever occurs first... will be remedied at no extra charge.



3. They carry the AUTHORIZED Reconditioner's warranty assuring the same safety as a *new* shoe (all parts come up to original factory brake shoe specifications).

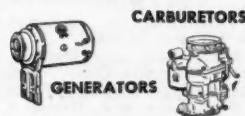
Be sure of your *present* brakes. Let your neighborhood Ford Dealer give your fleet a brake shoe inspection. He can spot trouble *before* your brakes give out.

Save dollars too with other AUTHORIZED Reconditioned Ford Parts. All carry Reconditioner's Warranty.



FUEL PUMPS

STARTER MOTOR



CARBURETORS

GENERATORS

DISTRIBUTORS AND VOLTAGE REGULATORS

The biggest reconditioned "part" of all! An AUTHORIZED Reconditioned Ford engine has over 150 new or completely reconditioned Genuine Ford Parts... *new-engine power at about half the cost!*



Keep your Ford ALL Ford...with AUTHORIZED Reconditioned Ford Parts!

CLEANERS, Differential and Transmission—
See Flushers, Differential and Transmission

CLEANERS, Engine, Chassis and Fender



Aerol Products Co., Wesley St., South Hackensack, N. J.
 Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich. "Viscucleaner." (Steam.)
 Chem-Therm Mfg. Co., Pasadena, Calif.
 Clayton Mfg. Co., 1363 N. Temple City Blvd., El Monte, Calif. "Clayton-Kerrick." (Hot vapor spray; also portable steam.)
 Curran Corp., Lawrence, Mass. (Cylinder head cleaning kits.)
 Eclipse Fuel Engineering Co., 711 S. Main St., Rockford, Ill. "McKee."
 Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
 Ewing Mfg. Co., 2545 N. W. Tenth St., Oklahoma City, Okla. (Steam.)
 Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
 Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
 Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Cornopolis, Pa. "Hypressure Jenny."
 Hydro-Air Cleaning Systems, Inc., 11921 Miles Ave., Cleveland 5, Ohio.
 Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
 Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
 Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
 Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Steam.)
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y. (Steam.)
 Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer Flo."
 Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. "Quick Steam." (Steam.)
 Siebring Mfg. Co., 182 Main St., George, Iowa. (Steam.)
 Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.

CLEANERS, Metal

(Compound for cleaning and preparing surfaces for painting; see also Solvents, Oil, Carbon and Grease)

American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Deoxidine," "Ridoline," "Trisila."
 Anti-Rust Corp., 315 E. 91st St., New York, N. Y. "Rozene."
 Bruce Products Corp., Howell, Mich. "Bruko."
 Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Bu-Co."
 Calcine Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J. "Calcol."
 Carbide & Carbon Chemicals Div. Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. "Tergitol."
 Champion Products, Inc., P. O. Box 291, Stephenville, Texas.
 Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
 Dearborn Chemical Co., Merchandise Mart Plaza, Chicago 54, Ill.
 Detrex Corp., Box 501, Detroit 32, Mich. "Detrex," "Perm-A-Clor," "Triad."
 Ditzler Color Div., Pittsburgh Plate Glass Co., 3000 W. Chicago Ave., Detroit 4, Mich.
 Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Dyna Sprex," "Sprex AC."
 du Pont de Nemours & Co., E. I. Electrochemicals Dept., Wilmington 98, Del.
 du Pont de Nemours & Co., E. I. Grasselli Chemical Dept., du Pont Bldg., Wilmington 98, Del. "Duclean" (Alkaline and acid.)
 Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
 Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
 Glisten Co., 13 Barnard St., Hillsdale, Mich.
 Hanson-Van Winkle-Munning Co., Matawan, N. J. "Matawan."
 Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 Homestead Valve Mfg. Co., Hypressure Jenny Div., Narrows Run Rd., Cornopolis, Pa. "Hypressure Jenny."

Hooker Electrochemical Corp., 4746 Buffalo Ave., Niagara Falls, N. Y. "Virgo."
 Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Houghton Clean," "Cerfak."
 Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro," "Phosmul," "Presint."
 J. P. Manufacturing Co., 330 E. Front St., Youngstown 3, Ohio.
 Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
 Kelley Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Beacon Brand."
 Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
 Lake Erie Mfg. Co., 192 Chicago St., Buffalo, N. Y. "Lemco."
 Lavo Co. of America, 300 W. Seventh St., Milwaukee 3, Wis. "Miriflk."
 Magnus Chemical Co., 185 South Ave., Garwood, N. J.
 Neilson Chemical Co., 6564 Benson St., Detroit 7, Mich. "Alumiprep."
 Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich. "Alkalume," "Northwest."
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich. "Parcolene," "Parco."
 Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Penesolve."
 Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake."
 Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa. "Pennsalt."
 Philadelphia Quartz Co., 1146 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa. "Metso."
 Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul No. 57."
 Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa. "Sun Spirits."
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Porokleen."
 Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis. "Krome-Kote."

CLEANERS, Spark Plug

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
 Auburn Spark Plug Co., York St., Auburn, N. Y.
 Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
 Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
 Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.
 Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Handy."
 Master Products Mfg. Co., 3480 E. 22nd St., Los Angeles 23, Calif. "Twin-Jet."
 Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."

CLEANERS, STEAM—See Cleaners, Engine, Chassis and Fender

CLEANERS, TANK—See Washers, Metal Parts

CLIPS, Spring

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
 Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
 Clapp Mfg. Co., E. D., 305 W. Genesee St., Auburn, N. Y.
 Cuyahoga Spring Co., 10230 Berea Rd., Cleveland 2, Ohio.
 Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
 Houser Engrg. & Mfg. Co., Bluffton, Ind.
 National Formetal Div., Federal-Mogul Corp., 6600 Meta Ave., Cleveland 14, Ohio.
 Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
 Service Spring Co., Box 638, Indianapolis 6, Ind. "Hendrix."
 Woodworth Specialties Corp., 182 Broad Ave., Binghamton, N. Y. "Easy-On."

CLUTCHES

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
 Auburn Clutch Co., Div. of Dana Corp., 4100 Bennett Ave., Toledo 1, Ohio.
 Borg & Beck Div., Borg-Warner Corp., 6553 S. Menard Ave., Chicago 35, Ill. "B. & B."
 Dynanatic Corp., 3307 14th Ave., Kenosha, Wis. (Induction.)
 Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.

Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y.
 Long Mfg. Div. Borg-Warner Corp., 12501 Dequindre St., Detroit, Mich.
 Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill. (Truck, tractor and bus.)
 Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe." (Truck and bus.)
 Stearns Magnetic Mfg. Co., 634 S. 23th St., Milwaukee 4, Wis. (Magnetic.)
 Twin Disc Clutch Co., 1323 Racine St., Racine, Wis.
 V-Belt Clutch Co., 418 N. Western Ave., Los Angeles 4, Calif. "Ball-Lok."
 Webster Mfg., Inc., Tiffin 16, Ohio.

CLUTCH ALIGNMENT TOOLS—See Tools, Clutch Alignment

CLUTCH FACINGS, See Facings, Clutch

CLUTCH PLATES—See Plates, Clutch

CLUTCH REBUILDING MACHINES—See Machines, Clutch Rebuilding

COCKS, Pet (Drain, Gasoline, Air, etc.)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Drain.)
 American Brass & Iron Co., 6500 Georgia Ave., Detroit 11, Mich.
 Commonwealth Brass Corp., 5835 Commonwealth Ave. & G. T. R. R., Detroit 8, Mich. (Drain.)
 Consolidated Brass Co., Summit Ave. & Wabash Ry., Detroit 9, Mich.
 Curtis Automotive Devices, Inc., 1000 R St., Bedford, Ind. (Block, radiator and heater.)
 Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
 Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
 Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
 Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
 Lincoln Brass Works, 2067 12th St., Detroit 16, Mich.
 Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati, Ohio.
 Nauman Mfg. Co., R. F., 525 Michigan Ave., Buffalo 3, N. Y. "Naco." (For Chevrolet, Pontiac, etc.)
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Roberts Brass Mfg. Co., 5435 W. Fort St., Detroit 9, Mich.
 Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

COILS, Field

Arrow Armatures Co., 15 Fordham Road, Boston 34, Mass.
 General Armature & Mfg. Co., Mill Hall, Pa.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.

COILS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
 American Motor Products Co., Fond du Lac, Wis. "Ampeco."
 Andrew Parts Mfg. Co., 49 Amsterdam Ave., N. Y. 23, N. Y.
 Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
 Crumbliss Mfg. Co., 3011 N. Cicero Ave., Chicago 41, Ill.
 Delco-Remy Div., General Motors Corp., Anderson, Ind.
 O.S.M. Electric Corp., 6209 Hamilton Ave., Detroit 2, Mich.
 Echlin Mfg. Co., 220 East St., New Haven, Conn.
 Electric Auto-Lite Co., Toledo, Ohio. "Auto-Lite."
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Regular and high speed.)
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
 Holley Carburetor Co., 5920 Vancouver Ave., Detroit 8, Mich.
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fairlawn, N. J.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.

In 8 states, over 8,300 miles,
THE SCALE TELLS THE TALE



The 8,300 miles of certified routes of
 Yellow Transit Freight Lines, Inc.



Browns carry bigger payloads

for Yellow Transit Freight Lines, Inc.

Brown Trailers are helping Yellow Transit Freight Lines, Inc., accelerate their vital defense transport business in eight states, over 8,300 miles of certified routes . . .

Freight volume the first quarter of 1951 was 30 per cent higher than first quarter last year, reports President Robert C. Hardy of Yellow Transit Freight Lines, Inc.

"The company's fleet carried many thousands of pounds more payload within legal limits with Brown tandem axle trailers.

"Today's operating conditions call for higher mileage, tighter schedules and bigger payloads. We found Brown's BIGGER PAYLOADS filled the bill and helped us to meet tight schedules and rising costs."

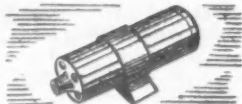
You, too, can speed up your operations and meet your rising costs with bigger payloads when you use Brown trailers. *The scale tells the tale.* Brown trailers will carry hundreds of pounds more than comparable trailers. Compare them on any scale — then **BUY BROWN.**



Toledo, Ohio Spokane, Wash.
 Distributors in principal cities

COILS, Ignition—continued

National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
 New York Coil Co., 42 Second Ave., Phoenixville, Pa.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. "P.P.P."
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.



Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y. "Blue Streak," "Standard."
 Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill. "K-W."
 Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go."

COIL TESTERS—See Instruments, Electrical Circuit Testing

COMBUSTION ANALYZERS—See Analyzers, Combustion

COMMUTATORS, Electric Motor

Cameron Electrical Mfg. Co., 205 Main St., Ansonia, Conn.
 Carty Electric and Armature Service, Inc., 1608 14th St., N.W., Washington, D. C.
 Electric Materials Co., Clay & Washington Sts., North East, Pa.
 Simmons Mfg. Co., Ashland, Ohio. (For Ford and Chevrolet cars.)
 Spring Div. Borg-Warner Corp., Madison St. & 25th Ave., Bellwood, Ill.
 Toledo Standard Commutator Co., 1111 Beehler Ave., Owosso, Mich. "Hillsdale," "Homer."

COMPOUNDS, Battery Terminal Anti-Corrosive

Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. "Arsco Anti-Korode."
 Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
 Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
 Noco Co., 2074 E. 65th St., Cleveland 36, Ohio.
 Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. "Krode Kure."
 Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."
 Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis.

COMPOUNDS, Car Washing, See Detergents, Car Washing and Soaps, Car Washing.

COMPOUNDS, Crankcase Sludge Removing

Alox Corp., 70 Pine St., New York 5, N. Y.
 Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
 Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
 Curran Corp., S. Canal St., Lawrence, Mass.
 Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa. "Mototuner."
 Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
 Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Hi-Rev."
 Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
 Glisten Co., 13 Barnard St., Hillsdale, Mich.
 Gulf Oil Corp. (Gulf Refining Co.), Gulf Bldg., Pittsburgh 30, Pa. "Gulf Motor Flush."
 Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J. "Whiz."
 Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis. "Lubaid T."
 Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus 755."
 National Refining Co., 1808 Standard Bldg., Cleveland 1, Ohio. "Enarco-Solv."
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Permatex Co., 1720 Avenue Y, Brooklyn 35, N. Y.

Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Loosite."
 Quaker Oats Co., Chemical Div., Chicago, Ill. "Furfural."
 Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C. "3 in 1 Nu-Power."
 Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Motor-Kleen."
 Rust Master Chemical Corp., 712 Beacon St., Boston, Mass. "Six Master."
 Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Runzit."
 V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

COMPOUNDS, Radiator & Block Repair (Advertisers only)

du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, Wilmington 98, Del.
 Goodrich Co., B. F., 500 S. Main St., Akron, 18, Ohio. (Capsules.)
 Hollingshead Corp., R. M., 840 Cooper St., Camden 2, N. J. "Whiz."
 K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
 Lusco Inc., 5915 Bonna, Cleveland, Ohio.
 Miller Mfg. Co., 1100 N. 32nd St., Camden 5, N. J. "Wonder Seal," "Wonder Weld."
 Permatex Co., 1720 Ave. Y, Brooklyn 35, N. Y. "Permatex."
 Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
 Socony Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Stop Leak."
 Stanley Co., John T., 642 W. 30th St., New York 1, N. Y. "Mobo."
 Tinch Products Co., 800 Borden Ave., Sycamore, Ill.
 Versnick Mfg. Co., 4700 E. Nevada St., Detroit 34, Mich. "Versnick Met-L-Seal."

COMPOUNDS, Radiator Rust Preventing, See Rust Preventatives, Cooling System.

COMPOUNDS, Rubbing and Polishing

Atomix, Inc., Box 486, Wilmington 99, Del. "Atolak."
 Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C."
 Belvidere Laboratories, 700 W. Locust St., Belvidere, Ill. "Speedite."
 Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.
 Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
 Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
 Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
 Ditzler Color Div., Pittsburgh Plate Glass Co., 3000 W. Chicago Ave., Detroit 4, Mich.
 Du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del. "No. 7."
 du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del. "Duco."
 Dural Automotive Div., Berry Bros., Inc., 211 Leib St., Detroit, Mich.
 Formax Mfg. Co., 3171 Bellevue St., Detroit 7, Mich.
 Glisten Co., 13 Barnard St., Hillsdale, Mich.
 Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J. "Whiz."
 International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
 Ken-nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
 Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
 Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
 McAleer Mfg. Co., Div. Higbie Mfg. Co., Fourth & Water Sts., Rochester, Mich.
 Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
 Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
 Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
 Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill. "Simoniz" (Polishing: "Simoniz Kleener" & "Lacker Rubb" rubbing.)
 Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
 Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
 Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
 Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."
 Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.

COMPOUNDS, Tire Repair

Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 2, Tex. (Sole distributors, Monkey Grip Sales Co., 5320 Harry Hines Blvd., Dallas 2, Tex.)
 Even-Air Corp., Caldwell, N. J.
 Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
 Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Gross Mfg. Co., 1711 California St., Monrovia, Calif.
 Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
 Lee Rubber & Tire Corp., Conshohocken, Pa.
 U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
 United States Rubber Co., Rockefeller Center, Ave. of the Americas, New York 20, N. Y.
 Van Cleef Bros., Woodlawn Ave., 77th to 78th St., Chicago, Ill. "Dutch Brand."

COMPOUNDS, Valve Grinding

Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Flare."
 Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
 Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
 Clover Mfg. Co., Norwalk, Conn.
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
 Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
 Harrison & Co., P. O. Box 457, Haverhill, Mass. "4A."
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
 Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.
 Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
 Purflex Mfg. Co., Box 118, Collegeville, Pa.
 Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

COMPOUNDS, Welding

Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio. "Dolfinite."
 Ensign Products Co., 3523 E. 76th St., Cleveland 15, Ohio.
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. "Marquette Spatter-Shield."
 Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio. "No-Spat." (To prevent bonding of spatter to parts.)
 Wayne Chemical Products Co., Copeland Ave. & M.C.R.R., Detroit, Mich. "Flash-Ex." to prevent bonding of flash to dies; "Spatter-Ex." to prevent bonding of spatter to parts.)
 Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis. "Anti-Spatter." (To prevent bonding of spatter to parts.)

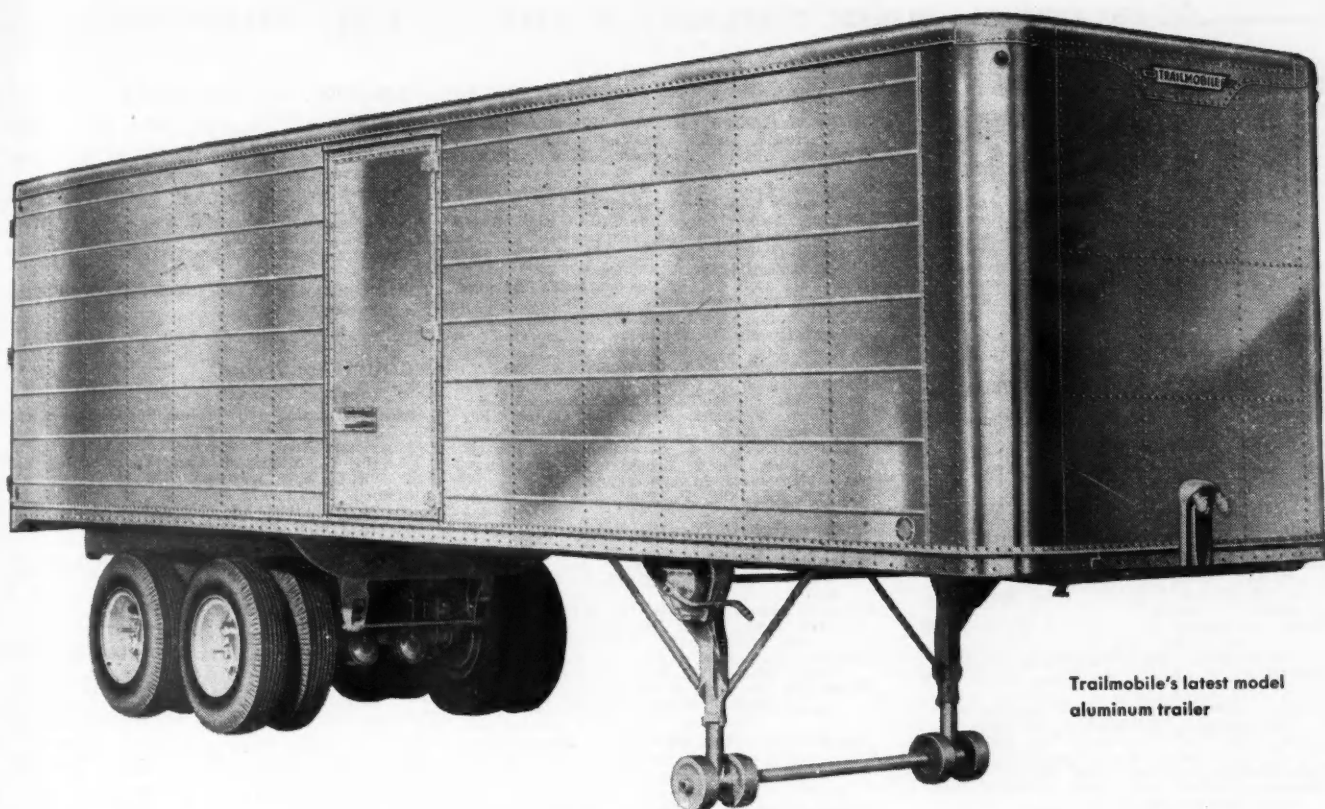
COMPRESSION GAGE—See Gages, Cylinder Compression

COMPOUNDS, Windshield Sealing

Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio. "Dolfinite."
 Krylon Inc., 2601 N. Broad St., Philadelphia 32, Pa. "Sealzit."
 Permatex Company, Inc., 1720 Avenue Y, Brooklyn 35, N. Y.

COMPRESSORS, Air

Air-Flo Compressor Co., 357 W. Thornton St., Akron 7, Ohio.
 Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
 American Air Compressor Corp., Dell Ave. & 48th St., North Bergen, N. J. "American Fairhurst."
 American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, Ill. "Kellogg-American."
 Beach-Russ Co., 62 Church St., New York 7, N. Y.
 Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill. (For operating spray equipment.)
 Black Mfg. Co., 100 Dairy Road, Parkton 63, Md.
 Brown Corp., W. R., 5720 Armitage Ave., Chicago, Ill.
 Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
 Buell Mfg. Co., 919 W. 49th Place, Chicago 9, Ill.
 Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."



Trailmobile's latest model aluminum trailer

TRAILMOBILE, extensive user of Kaiser Aluminum, says:

"Up to 3,200 lbs. bigger payload with aluminum!"

"Over and over again our customers report increased profits with aluminum trailers," says George M. Bunker, President of Trailmobile.

"In many cases operators have increased payload by as much as 3,200 pounds on each unit. This bonus-payload often makes it possible for the all-aluminum trailers to pay for themselves in the first year.

"Aluminum trailers help meet today's rising operating costs in other ways, too—through lower maintenance and through years of trouble-free service."

Like all major body builders, Trailmobile is a consistent user of Kaiser Aluminum. Our Development and Engineering Division will gladly help you develop economical, lightweight equipment. Call us today.

63 sales offices and warehouse distributors in principal cities. Kaiser Aluminum & Chemical Sales, Inc., Oakland, California.

Kaiser Aluminum

A major producer

for America's leading body builders



**Leading operators
choose aluminum**

C. H. Dohrn, Co-owner of Dohrn Transfer Co., says:

"It is with extreme pleasure that I state to you that the all-aluminum Trailmobiles are 2,710 lbs. lighter than our conventional type of trailer, although they are 4 ft., 2 inches longer.

"... a savings of \$1,300.80 per week is readily arrived at.

"Also our experience demonstrated that one of the largest savings was in maintenance and painting. Not so much the actual cost of the labor and paint, but the removal of the unit from service for the length of time required to clean up same and accomplish the needed paint job.

"To Dohrn Transfer Company this has represented a considerable saving in complete utilization of our entire fleet."

COMPRESSORS, Air—continued

Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. "Easy."
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.



Davey Compressor Co., N. Water & Cook Sts., Kent, Ohio
Dayton Air Compressor Co., 427 Valley St., Dayton 4, Ohio.
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Eisco," "Wilmington."
Gardner-Denver Co., S. Front St., Quincy, Ill.
Gast Mfg. Corp., 103 Hinkley St., Benton Harbor, Mich.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Hallet Equipment Co., Div. of Construction Products Corp., 410 San Fernando Rd., Los Angeles, Calif. "Hayward-Hallett"
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keystone Compressor Co., 8407 Hegerman St., Holmesburg, Philadelphia 36, Pa.
Lynch Corp., Par Compressor Div., 3600 Summit St., Toledo, Ohio. "Par."
Motor Generator Corp., Troy, Ohio.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York, N. Y.
Quincy Compressor Co., 217 Main St., Quincy, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Scott Air Compressor Co., 4682 Mulberry St., Philadelphia 24, Pa.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Southwest Pump Co., First and Center Sts., Bonham, Tex.
Tokheim Oil Tank & Pump Co., 1602 Wabash Ave., Fort Wayne 1, Ind. (Portable)
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Westinghouse Air Brake Co., Industrial Products Div., (Wilmerding), Pittsburgh, Pa.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."
Worthington Pump & Machinery Corp., Harrison, N. J. "Blue Brute."

COMPRESSORS, Air (Power Take-off Type)

Bench-Russ Co., 62 Church St., New York 7, N. Y.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Davey Compressor Co., N. Water & Cook Sts., Kent, Ohio. (Truck)
Schramm, Inc., West Chester, Pa.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

CONDENSER TESTERS, See Instruments, Electrical Circuit Testing**CONDENSERS, Ignition**

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis. "Ampeco."
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven, Conn.
Electric Auto-Lite Co., Toledo, Ohio. "Auto-Lite"
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.

Guaranteed Parts Co., Seneca Falls, N. Y. "GP."

Holley Carburetor Co., 5920 Vancouver Ave., Detroit 8, Mich.
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
New York Coil Co., 42 Second Ave., Phoenixville, Pa. "Nycco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 80, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 6, N. J. (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Sprague Electric Co., 201 Beaver St., North Adams, Mass.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y. "Super-seal."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go."

CONNECTING ROD BEARINGS, See Bearings**CONNECTING RODS**

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. (Aluminum alloy).
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Reconditioned, Rebabitted).
Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Continental Motors Corp., Muskegon 82, Mich.
Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Aluminum).
Niagara Motors Corp., Lampshire St., Dunkirk, N. Y.
Park Drop Forge Co., 777 E. 79th St., Cleveland 3, Ohio.
Parks Engineering, Inc., 347 E. Ward St., Milwaukee 7, Wis. "P.A."
Pioneer Motor Bearing Co., Eddy St. & Van Ness Ave., San Francisco, Calif.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.

CONNECTORS, Electrical Circuit (Trailer)

Autae, Inc., Box 1071, New Haven, Conn.
"Autae Coiled Kords"
Berg Mfg. & Sales Co., 24 E. 18th St., Chicago 16, Ill. "Berg Royal," "Berg Shur-Lock."
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. "Hencol."
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.
Scintilla Magneto Div. of Bendix Aviation Corp., Sherman Ave., Sidney, N. J. "Bendix"
Warner Electric Brake & Clutch Co., P. O. Box 620, Beloit, Wis.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. W., 11th & Cambria Sts., Philadelphia 33, Pa.

CONNECTORS, Wire, See Terminals, Wire**CONTACT POINT ALIGNING TOOLS, See Tools, Ignition****CONTACT POINT FILES, See Files, Contact Point****CONTACT POINTS, See Points (Ignition)****CONTROLS, ENGINE CUT OFF, See Switches, Ignition (Cut-Off)****COOLERS, Oil Temperature**

Bell & Gossett Co., 8200 Austin Ave., Morton Grove, Ill. "B & G."
G & O Mfg. Co., 133 Winchester Ave., New Haven, Conn.
Midwest Thermotrol, 111 N. Fifth St., Keokuk, Iowa. "Continental Thermotrol."
Ross Heater & Mfg. Co., Inc., 1407-11 West Ave., Buffalo 13, N. Y.
Yates-American Machine Co., Beloit, Wis.

CORROSION PREVENTIVES, See Rust Preventives**COUPLERS, Trailer**

(See also "Connectors, Electrical")

Acme Mfg. Co., 1406 Agnes St., Kansas City, Mo.
American Steel Foundries, Automotive Div., 400 N. Michigan Ave., Chicago 11, Ill. "A. S. F."
Atwood Vacuum Machine Co., 2500 N. Main St., Rockford, Ill. "Dayton."
Austin Trailer Equipment Co., 1143 W. Western Ave., Muskegon, Mich.
Berluti Mfg. Co., 1023 Wheeler St., Saginaw, Mich. "Snapping Turtle." (House and utility trailer).
Buller Mfg. Co., Hillsboro, Kan.
Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Wayne."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Rose."
Fruehauf Trailer Co., 10940 Harper Ave., Detroit, Mich.
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis. "Bull Dog," "Back-in Hitch."
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. ("Quick-Guide" aligner).
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa. "McKay Klip Lock." (Emergency chain).
Marvel Industries, Inc., Sturgis, Mich.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich.
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Cabin, sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa).
Service Caster & Truck Corp., Albion, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Slimp Axle Products, Highway 99 West (Box 449), Colton, Calif.
Speedmaster, Ltd., 630 E. 10th St., Oakland 4, Calif.
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Cal.
Wood-Williams-Capp Mfg. Co., 3239 W. Michigan Ave., Ypsilanti, Mich. "Paragon."

COUPLINGS, See Tube Fittings**COVERINGS, Floor (Bus or Truck)**

Armstrong Cork Co., Industrial Div., Lancaster, Pa. "Airoflor," "Armstrong's," "Automat," "Armoflor," "Acolon," "Trafex." (Linoleum).
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Synthetic rubber).

COVERS, Radiator Grille

Belmor Mfg. Co., 457 N. Oakley Blvd., Chicago 12, Ill.
Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich.
Henry Mfg. Co., 4215 Ave. S., Minneapolis, Minn. "Tru-Fit."
Hinson Mfg. Co., Westfield Ave. & Menges St., Waterloo, Iowa.
Kysor Heater Co., Haynes St., Cadillac, Mich. (Automatic).
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y.
Protection Products Co., 2637 W. Polk St., Chicago 12, Ill.
Superior Auto Fabric Co., 2487 S. Michigan Ave., Chicago, Ill.
Temme & Co., W. H., 501 S. Grove Ave., Oak Park, Ill.

COVERS, Truck

Crawford-Austin Mfg. Co., Sixth & Jackson Sts., Waco, Tex. "Dux-Bak."
Mt. Vernon-Woodberry Mills, Inc., Mercantile Trust Bldg., N. Y., N. Y.

COVERS, Truck—continued

Pittsburgh Steel Products Co., Grant Bldg., Pittsburgh 30, Pa. ("Speedrack" for handling tarpaulins)
 Turk Corp., C. K., 1122 Mishawaka Ave., South Bend 15, Ind. "Caravan Top."
 Turner Equipment Co., 261 Hastings St., Detroit 26, Mich. "Champion."
 Webb Mfg. Co., Fourth & Cambria Sts., Philadelphia 33, Pa.

CRANES, Crawler and Truck Mounted

American Hoist & Derrick Co., St. Paul 1, Minn. (Crane blocks.)
 Browning Crane & Shovel Co., 16226 Waterloo Rd., N. E., Cleveland 10, Ohio.
 De-Lux Neon Mfg. Co., 1007 NW 36th St., Oklahoma City 3, Okla. "Memco"
 Harben, Inc., Box 5997, Dallas, Tex.
 Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.; 1880 N. Adams St., Peoria 1, Ill.; 1080 Meyers St., Danville, Ill.
 Koehring Co., 3026 W. Concordia Ave., Milwaukee 10, Wis. (Crawler.)
 Link-Belt Speeder Corp., 1201 Sixth St., S. W., Cedar Rapids, Iowa.
 Pitman Mfg. Co., 300 West 79th Terrace, Kansas City, Mo. "Hydra-Lift"
 Schild Bantam Co., Waverly, Iowa.
 Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y. (Also Milford crane-truck.)

CRANES, Monorail

American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio.
 Detroit Hoist & Machine Co., 8282 Morrow St., Detroit 11, Mich.
 Euclid Crane & Hoist Co., Euclid, Ohio.
 Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
 Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.
 Industrial Equipment Co., 315 N. Ada St., Chicago 7, Ill.
 Loudon Machinery Co., 1102 West Ave., Fairfield, Iowa.
 Northern Engineering Wks., 2615 Atwater St., Detroit 7, Mich.
 Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.

CRANES, Portable (Hand Operated)

See also Hoists, Chain.
 Baker Mfg. Co., 154 W. Water St., Kankakee, Ill. "Hercules."
 Bradney Machine Co., 70 Monhagen Ave., Middletown, N. Y.
 Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
 Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
 Cam Tool Co., 288 22nd St., Oakland 12, Calif. "Blue Heron."
 Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y. "C-M."
 Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
 Evans Reamer & Machine Co., New Lexington, Ohio.
 Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
 Hill Acme Co., "Canton" Div., 1201 W. 65th St., N. W., Cleveland, Ohio.
 Industrial Equipment Co., 315 N. Ada St., Chicago 7, Ill.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Hydraulic.)
 Lewis-Shepard Products, Inc., 155 Walnut St., Watertown 72, Mass.
 Manley Mfg. Div. American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
 Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y. (Hydraulic.)
 Round & Son, David, Box 883, Cleveland 22, Ohio.
 Ruger Equipment, Inc., 615 W. 4th St., Uhrichsville, Ohio.
 Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
 Service Caster & Truck Corp., Albion, Mich.
 Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 3, Minn.

CRANES, Service Truck

Ashton Power Wrecker Equipment Co., Inc., 1701 W. Lafayette, Detroit 16, Mich.
 Cam Tool Co., 288 22nd St., Oakland 12, Calif. "Blue Heron."
 Erie Hoist Co., 2000 Holland St., Erie, Pa.
 Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD"
 Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
 Heil, Jack, 2118 N. Wayne Ave., Chicago 14, Ill.

Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
 Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio. "Hitco."
 Hubbard Mfg. Co., Farmland, Ind.
 International Equipment Co., 9 Carlton St., Buffalo 3, N. Y.
 McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers American."
 Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
 Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Ruger Equipment, Inc., 615 W. 4th St., Uhrichsville, Ohio. (Mydraulic.)
 Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
 Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.
 Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.

CRANKSHAFT. Grinders, See Grinders, Crankshaft

CREEPERS, Repair

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
 Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
 Clinton Products Co., Clinton, Mich. "GI-Gr-Nite."
 Huffman Mfg. Co., Davis & Gilbert Ave., Dayton 1, Ohio. (Metal, also wood.)
 Kay-Wood Products Inc., Bedford, Pa. (Wood.)
 Market Forge Co., 25 Garvey St., Everett, Mass. "Maforce."
 Mohler Engineering Co., 47 Emerick St., Ypsilanti, Mich.
 R & L Mfg. Co., 1945 N. 12th St., Toledo 1, Ohio. (Sole distributors, Lisle Corp., 809 E. Main St., Clarinda, Iowa.)
 Smash-Proof Co., 6000 State Ave., Ashtabula, Ohio. "Smash-Proof" (with or without brake), "Red Head"
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

CUSHIONS, Seat (Rubber)

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
 Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y. "Dunlop Pillo Foam."
 Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
 Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. "Airfoam."
 Hewitt Restfoam Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y. "Restfoam."
 New York Rubber Corp. (Airrubber Dept.), 100 Park Ave., New York 17, N. Y.
 Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
 Sponge Rubber Products Co., 247 Derby Place, Shelton, Conn. "Spongex."
 United States Rubber Co., U. S. Koylon Foam Div., Mishawaka, Ind. "U. S. Koylon."

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Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
 Fort Pitt Mfg. Co., 1501 Preble Ave., N. S., Pittsburgh 33, Pa.
 Goshen Cushion & Body Co., N. Second St., Goshen, Ind. "Better Built."
 Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
 McInerney Spring & Wire Co., 655 Godfrey Ave., Grand Rapids, Mich. "Travel Comfort."
 Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
 Sagless Auto Seat Co., 3000 S. Archer Ave., Chicago 8, Ill. "Sagless," "Serv-U." (For trucks.)
 Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich.

CUTTERS, Tubing (Hand)

Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 3, Conn.

Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Cal-Van Machine Products, Inc., 209 S. Water St., Jackson, Mich.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
 Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Ereco." (Hand power.)
 Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
 Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
 Kennedy Service Tools, Inc., P. O. Box 88, Mogadore, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
 Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
 Reed Mfg. Co., 1425 W. Eighth St., Erie, Pa. (Pipe)
 Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago 11, also 1600 E. Euclid Ave., Detroit, Mich.
 Toledo Pipe Threading Machine Co., 1445 Summit Ave., Toledo 4, Ohio.
 Trimont Mfg. Co., Div. of Aetna Industrial Corp., 65 Armory St. (Roxbury), Boston, Mass. "Trimo."

CYLINDER DE-GLAZERS, See De-glazers, Cylinder

CYLINDER HONES, See Hones, Cylinder

CYLINDER, Liner, See Sleeves, Cylinder

CYLINDER LUBRICATORS, See Lubricators, Upper Cylinder

CYLINDER REBORING TOOLS, See Tools, Cylinder Reboring (Portable)

CLYINDER RIDGE REAMER, See Reamers, Cylinder Ridge

DECALCOMANIAS

American Decalcomania Co., Inc., 4326 5th Ave., Chicago 24, Ill.
 Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.
 Excello Specialty Co., 4111 E. 100 St., Cleveland 5, Ohio.
 Jaco-Lac Decal Co., 234 S. Wells, Chicago 6, Ill.
 Meyercoord Co., 5323 W. Lake St., Chicago 44, Ill.
 Palm Bros. Decalcomania Co., 3736 Regent St., Cincinnati, Ohio.
 Palm, Fechteler Co., 220 W. 42nd St., New York, N. Y.
 Permalux Co., 500 Rathbone Ave., Aurora, Ill.

DEFROSTERS, Glass Shield

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Casco," "Perfection."
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Henry Mfg. Co., 421 5th Ave. So., Minneapolis, Minn.
 Kysor Heater Co., Hayes St., Cadillac, Mich.
 Western Cable & Light Co., 395 Sibley St., St. Paul, Minn.

DEFROSTING FANS, See Fans, Defrosting

DEGASSERS, Bus and Truck

Consolidated Car-Heating, Inc., 413 N. Pearl St., Albany, N. Y.
 Fageol Co., R. D., 5725 Mt. Elliott Ave., Detroit 11, Mich.

DE-GLAZERS, Cylinder

Burd Piston Ring Co., 10th St. & 23rd Ave., Rockford, Ill.
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 Koppers Co., Piston Ring Dept., Bush & Hamburg Sts., Baltimore 3, Md. "Glaze-Buster."
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 Storm-Vulcan Inc., 2504 Commerce St., Dallas 1, Tex.
 Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

DEGREASERS, See Washers, Metal Parts

DEGREASING COMPOUNDS, See Solvents, Oil, Carbon and Grease Removing

DEPRESSORS, Brake Pedal

Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
 Els Automotive Corp., Middletown, Conn.
 Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
 Supco Products Corp., S. Bayview Ave., Amityville, L. I. N. Y.
 Waterloo Valve Spring Compressor Co., 300 Ansbrough Ave., Waterloo, Iowa. "Little Wonder."

DERRICKS, See Cranes, Service Truck

DETERGENTS, Car Washing

(See also Soaps)

Advance Century Mfg. Co., P. O. Box 781, Greenville, S. C.
 Atomix, Inc., Box 1126, Wilmington 99, Del. "Atolak."
 Barton Products Co., 2675 St. Mary's Court, Chicago 47, Ill.
 Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
 Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
 Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Dirt Buster."
 Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif.
 Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
 Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Norway."
 Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Gently."
 Detrex Corp., 14331 Woodrow Wilson Ave., Detroit 32, Mich. "Drex-Foam."
 Drew Co., E. F. 15 E. 26th St., New York, N. Y. "Ameroid."
 du Pont de Nemours & Co., E. I. Chemical Specialties Div., Wilmington, Del. "No. 7."
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harcos."
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
 Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Tresbon."
 International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind. "Blue Ribbon."
 Jones Products, Inc., 276 Third St., Cambridge 42, Mass. "X-100."
 Kelite Products, Inc., 909 W. 60th St., Los Angeles, Calif.
 Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Pa.
 Lavo Co. of America, 800 N. Seventh St., Milwaukee 3, Wis.
 Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio.
 Mac's Super Gloss Co., N. Figueroa St., Los Angeles 42, Calif.
 Magnus Chemical Co., 185 South Ave., Garwood, N. J.
 Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
 Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn. "Wash-Master."
 Miller Mfg. Co., 1100 N. 32nd St., Camden, N. J. "Washettes." (Capsules.)
 Motor Kool Products Co., 505 Buttes Ave., Columbus 8, Ohio. "M-K Washrite."
 Murphy-Phoenix Co., Div. of Phoenix Oil Co., 9505 Cassius Ave., Cleveland 5, Ohio.
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Penesolve."
 Permo Products Co., 1629 Platte St., Denver 2, Colo.
 Publicker Industries, Inc., 1429 Walnut St., Philadelphia 2, Pa. "Thermo Foam."
 Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
 Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa. "PN 700."
 Service Supply Co., 1115 Seventh St., Denver, Colo. "Shamo."
 Shur-Gloss Mfg. Co., 3555 W. Grand Ave., Chicago 51, Ill. "Shur Wonder-Wash."
 Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Sovasuds Car Wash."
 Speco, Inc., 7303 Associate Ave., Cleveland 9, Ohio.
 Stanley Co., John T., 642 W. 30th St., New York 1, N. Y. "Mobo," "Protol."
 Tudor Chemical Specialties, Inc., 229 W. 179th St., New York 53, N. Y. "Quicke."

Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
 U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
 Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
 Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.
 "X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y. "X-Karwash."
 Zegol, Inc., 155 E. Kilbourn Ave., Milwaukee 1, Wis.

DIAL GAGES, See Gages, Dial

DIESEL ENGINES, See Engines, Diesel

DIESEL ENGINE FUEL FILTERS, See Filters, Diesel Fuel

DIESEL EQUIPMENT TESTERS, See Testers, Diesel Equipment

DIESEL FUEL, See Fuels, Engine

DIESEL INJECTOR EQUIPMENT, See Injector Systems, Gasoline & Diesel Engine

DIFFERENTIAL CLEANERS, See Flushers, Differential and Transmission

DIFFERENTIALS

Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."
 Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 65, Calif. (Chain drive and double reduction.)
 Detroit Automotive Products Corp., 3701 Grinnell Ave., Detroit 13, Mich. "No Spin." (Automatic locking for trucks.)
 Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
 Dualoc Drive, Inc., 700 20th St., Rockford, Ill.
 Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
 Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich. (Truck.)
 New Process Gear Co., 500 Plum St., Syracuse, N. Y.
 Warren Gear Mfg. Co., Warren, Pa.

DIRECTIONAL SIGNAL SWITCHES, See Switches, Direction Indicating Signal

DIRECTIONAL SIGNALS, See Signals, Direction Indicating

DISCS, Abrasive Grinding

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
 Armour & Co., Curled Hair & Coated Abrasives Div., N. Benton Rd., Alliance, Ohio.
 Bay State Abrasive Products Co., 12 Union St., Westboro, Mass. "Dura Cut."
 Behr-Manning Corp., Troy, N. Y. "Metalite," "Speed-Wet Metalite."
 Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill. "Besly-Titan."
 Carborundum Co., Buffalo Ave., Niagara Falls, N. Y. (Also Sanding pads.)
 Clover Mfg. Co., Norwalk, Conn.
 Gardner Machine Co., 444 E. Gardner St., Beloit, Wis.
 Mid-West Abrasive Co., 510 S. Washington St., Owosso, Mich.
 Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
 Simonds Abrasive Co., Tacony & Fraley Sts., Philadelphia 37, Pa.

DISPENSERS, GREASE, See Lubricators, Portable (High Pressure)

DISSIPATORS, Energy (Brake Auxiliary)
 Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis.

DISTRIBUTOR PARTS, See Parts, Magneto Coil and Distributor

DISTRIBUTORS, Ignition

Delco-Remy Div. General Motors Corp., Anderson, Ind.
 Electric Auto-Lite Co., Toledo 1, Ohio. "Auto Lite."
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
 Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Also combination governor and distributor.)
 Shurhit Products Inc., Waukegan, Ill.

DISTRIBUTOR TESTING INSTRUMENTS, See Instruments, Distributor Testing

DOLLIES, Axle

Curtiss & Smith Mfg. Co., 900 Water St., Pottstown, Pa.
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DOLLIES, Truck Wheel

Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa. "ATI"
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 Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
 Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.
 Immel Co., 502 N. Vermillion, Streator, Ill.
 Melcos Mfg. Co., 4730 Avalon Blvd., Los Angeles, Cal.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
 Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
 Wats Enterprises, P. O. Box 1117, Miami 14, Fla.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

DOOR OPENERS—See Openers, Bus Door

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 Truk-A-Door Co., 6736 Faust Ave., Detroit 23, Mich.

DRAINERS, Crankcase Oil (Portable and Rapid Type)

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 Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
 Bishman Mfg. Co., Osseo, Minn. (Hand.)
 Chisholm Industries, Inc., 109 Central Ave., Lynn, Mass. "C & D."
 Choldun Mfg. Corp., 11 W. 42nd St., N. Y. 14, N. Y.
 Gray Co., 60 11th Ave., N. E., Minneapolis 14, Minn. "Graco Oil-Evac."
 Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo.
 Holcomb & Hoke Mfg Co 1545 Van Buren St., Indianapolis, Ind. "H. & H."
 Lostro Inc., 77 Church St., Newton, Ohio.
 Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. "Quick Lube."
 Wherry Engrg. Co., 3229 Morganford Rd., St. Louis 16, Mo.

DRAIN PLUGS, Crankcase

Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
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 Dessau Co., Maurice S., 535 Fifth Ave., New York 17, N. Y.
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 J. & S. Tool Co., 477 Main St., East Orange, N. J. "Fluidmotion."
 Koebel Diamond Tool Co., 9456 Grinnel Ave., Detroit 13, Mich. "Koebelite." (Diamond.)
 Last Word Sales & Engrg. Co., P. O. Box 287, Royal Oak, Mich.
 Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
 Moore Special Tool Co., 740 Union Ave., Bridgeport, Conn.
 Pratt & Whitney Div., Niles-Bement-Pond Co., Charter Oak Blvd., W. Hartford, Conn. "Diaform."
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 Standard Diamond Tool Corp., 64 W. 48th St., New York, N. Y.
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 Super-Cut, Inc., 3418 N. Knox Ave., Chicago 41, Ill. (Diamond.)
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 South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.
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 Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.

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Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
 Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
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 Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
 Cummins Portable Tools Div. Cummins-Chicago Corp., 4740 W. Ravenswood Ave., Chicago 40, Ill.
 Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
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 Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
 Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
 Millers Falls Co., Greenfield, Mass.
 Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8 Wis.
 Misener Mfg. Co., 202 Walton St., Syracuse 2, N. Y.
 Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
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 Signal Mfg. Co., Menominee, Mich.
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 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
 Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
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 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. "U. S."
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 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

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Air-Speed Tool Co., 1500 W. Slawson Ave., Los Angeles 47, Calif.
 Aro Equipment Corp., Bryan, Ohio.
 Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y. "CP."
 Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland, Ohio. "Cleco."
 Ideal Industries, Inc., 1014 Park Ave., Syracuse, Ill. "Ideal Air Horse."
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
 Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
 Master Pneumatic Tool Co., 145 Peniman Rd., Orwell, Ohio. "Master Power."
 Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.

DRILLS, Twist

Besly & Co., Chas. H., 113 N. Clinton St., Chicago 6, Ill.
 Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. "Double Circle."
 Chicago Tool & Kit Mfg. Co., 687 W. Randolph St., Chicago 6, Ill.
 Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. "Cle-Forge."
 Cogadill Twist Drill Co., 12950 W. Eight Mile Rd., Detroit 21, Mich. "Black Panther," "Mercury."
 Detroit Reamer & Tool Co., 2380 E. Seven Mile Road, Detroit 12, Mich. "D.R.&T."
 Do All Co., 254 N. Laurel Ave., Des Plaines, Ill.
 Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "GTD."
 Keystone Reamer & Tool Co., Millersburg, Pa.
 Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
 National Twist Drill & Tool Co., Rochester, Mich.
 New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
 Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
 Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio. "Shield Brand."

Threadwell Tap & Die Co., Greenfield, Mass.
 Union Twist Drill Co., Monroe St., Athol, Mass.
 Van Norman Co., 3640 Main St., Springfield 7, Mass.
 Wendt-Sonia Co., Hannibal, Md. "W-S." (Carbide tipped.)
 Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. "Blue Diamond," "Hercules."
 Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

DRIVER TESTING EQUIPMENT, See Testers, Driver**DRIVERS, Bushing**

Alvord-Polk Tool Co., 110 Gearhardt St., Millersburg, Pa. "Alpo." (Sets.)
 Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif.
 Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Cal-Van Machine Products, Inc., 801 S. Water St., Jackson, Mich.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
 Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Roscobel, Wis.
 Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
 Mechanics Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
 Miller Co., L. B., 394 State St., Stamford, Conn.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
 Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

DRUMS, Brake

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum fins bonded to cast iron.)
 Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa. (Combination iron and steel.)
 Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. "Cannonite." (Sand cast.)
 Copperweld Steel Co., Glassport Div., Glassport Pa. (Pressed steel with copper fins.)
 Crosby Co., 183 Pratt St., Buffalo, N. Y. (Pressed steel.)
 Dail Steel Products Co., Main & Hosmer Sts., Lansing, Mich. (Pressed steel.)
 Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
 Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Cast alloyed iron.)
 Frank Foundries Corp., 2020 Third St., Moline, Ill. "Frankite."
 Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.
 Homan & Co., 920 State Ave., Cincinnati 4, O.
 Hunt-Spiller Mfg. Corp., 383 Dorchester Ave., South Boston 27, Mass. "Hunt-Spiller Air Furnace Gun Iron." (For buses or trucks.)
 Ineco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md.
 Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. "Kaloy." (For truck trailers.)
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Composite iron and steel.)
 Lansing Stamping Co., So. Penn Ave., Lansing, Mich. (Pressed steel.)
 Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
 Motor Castings Co., 1823 S. 65th St., West Allis, Wis.
 Reynolds Mfg. Co., 600 Prospect Ave., Springfield, Mo. "Reyco." (Specially alloyed iron.)
 Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Specially alloyed iron.)
 Transue & Williams Steel Forging Corp., 600 Ely St., Alliance, Ohio. (Pressed steel.)

DRYING LAMPS, See Lamps, Drying, Baking and Heating**DYNAMOMETERS, Chassis Testing**

Bennett-Ferguson, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
 Clayton Mfg. Co., 1363 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)
 Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
 Otis Elevator Co., 260 11th Ave., New York 1, N. Y. "Otis Proving Stand."
 Safety Equipment Co., 1005 S. La Fayette Blvd., South Bend 18, Ind. (Bennett-Ferguson equipment for safety.)

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DYNAMOMETERS, Engine Testing

Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
 Clayborne Mfg. Co., 2615 S. Michigan Ave., Chicago 16, Ill.
 Clayton Mfg. Co., 1363 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)
 Dynamic Corp., 3307 14th Ave., Kenosha, Wis.
 General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y. (Electric.)
 Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
 Taylor Dynamometer & Machine Co., 528 W. Highland Ave., Milwaukee 2, Wis. "Hi-Eff."
 Toledo Scale Co., Telegraph Rd., Toledo 1, Ohio.
 Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.

ELECTRODES, Welding, See Rods, Welding

ELECTROLYTE, Battery Acid

American Cyanamid Co., 30 Rockefeller Plaza, New York 20, N. Y. "Aero Brand."
 du Pont de Nemours & Co., E. I., Grasselli Chemicals Dept., Wilmington 98, Del.
 Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
 Monsanto Chemical Co., Organic Chemicals Div., 1700 S. 2 St., St. Louis 4, Mo.

EMERY CLOTH, See Sandpaper

ENAMELS (Synthetic Resin Base)

(See also Lacquers)

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich. "Fleet-X-Name."
 Akron Paint & Varnish Co., 1390 Firestone Parkway, Akron 1, Ohio. "Bexco."
 American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa. "Quix."
 American Paint Co., 902 Larabee St., Chicago 10, Ill. "Dalax."
 American Varnish Co., 1138 N. Branch St., Chicago 22, Ill. "American," "Artapar."
 Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio. "Synite."
 Armite Laboratories, 6609 Broad St., Los Angeles 1, Calif.
 Automotive Finishes, Inc., P. O. Box 457, Northwestern Station, Detroit 4, Mich. "Fleet-Lux."
 Baer Bros., 438 W. 37th St., New York, N. Y.
 Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C," "Hexolin," "Glosset."
 Berry Bros., Inc., 211 Leib St., Detroit 7, Mich. "Amberly."
 Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
 Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass.
 Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.
 Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Synflex."
 Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
 Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. "Ditzco."
 Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit, Mich. "Don-A-Lac."
 du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del. "Dulux."
 Dural Automotive Div., Berry Bros., Inc., 211 Leib St., Detroit 7, Mich.
 Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Calif. "Ply-O-Syn," "Spray-Rite," "Leo-syn."
 Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
 Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. "Synco," "Rayhake."
 Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frostex."
 Glidden Co., 11001 Madison Ave., Cleveland, Ohio.
 Hilo Varnish Corp., 54 Stewart Ave., Brooklyn 6, N. Y.
 Hook Paint & Chemical Works, Inc., Box 190, Phoenixville, Pa. "Metalock."
 Illinois Bronze Powder Co., 2015 S. Clark St., Chicago, Ill. "Illbronze."
 Interchemical Corp., Finishes Div., 57 State St., Newark 1, N. J. "Polymerin."

Interchemical Corp., Murphy Paint Div., 224 McWhorter St., Newark 1, N. J. "Murphy."
 International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
 Kay & Ess Co., Leo & Kiser Sts., Dayton, Ohio. "Syndur."
 Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucodint."
 McDougall-Butler Co., 6 Evans St., Buffalo 5, N. Y.
 Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill. "Synthol."
 Midland Paint & Varnish Co., 3801 E. 9 St., Cleveland 5, Ohio. "Hyspar."
 Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Morlux," "Morris."
 Nason & Co., R. N., 151 Potrero Ave., San Francisco 3, Calif. "Glyko."
 Oxidermo Products, Inc., Springport, Mich.
 Pittsburgh Plate Glass Co., Paint Div., 2000 Grant Bldg., Pittsburgh 19, Pa. "Lavax."
 Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio.
 Rinsched-Mason Co., 5935 Milford St., Detroit 10, Mich. "Permax."
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Kem."
 Seymour of Sycamore, Inc., 218 Lucas St., Sycamore, Ill. "Lustre."
 Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Stantox."
 Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
 Testor Chemical Co., 2305 Charles St., Rockford, Ill. "Testor's."
 United Chromium, Inc., 51 E. 42nd St., New York 17, N. Y. "Unichrom."
 V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich. "Ve-Kote."
 Valentine & Company, Inc., 11 E. 36th St., New York 16, N. Y. "Valenite."
 Vita-Var Corp., 46 Albert Ave., Newark, N. J. "Vita-Lux."
 Vulcan Varnish Co., 1108 W. Main St., Louisville, Ky.
 W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-Woolsey Paint & Color Co., C. A., 229 E. 42nd St., New York, N. Y.
 Zapon Div., Atlas Powder Co., Ludlow St., Stamford, Conn. (Also "Zapon Izarine" spray finish.)

ENGINES, Diesel (Truck and Bus)

Buda Co., 154th St. & Commercial Ave., Harvey, Ill. "Buda," "Buda Lanova."
 Continental Motors Corp., Muskegon 82, Mich. "Red Seal." (Truck, tractor, bus and marine.)
 Cummins Engine Co., Fifth & Wilson Sts., Columbus, Ind.
 Detroit Diesel Engine Div., General Motors Corp., 13400 W. Outer Drive, Detroit 28, Mich. (Truck, bus and marine.)
 P & H Diesel Engine Div., Harnischfeger Corp., 100 Lake St., Port Washington, Wis.
 Hercules Motors Corp., 101 11th St., S. E., Canton 2, Ohio.
 Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
 Waukesha Motor Co., E. St. Paul Ave., Waukesha, Wis. (Truck.)

ENGINES, Small (Gasoline)

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis. (Single cylinder, 4-cycle air-cooled.)
 Clinton Machine Co., Clinton, Mich.
 Continental Motors Corp., Muskegon 82, Mich.
 Cushman Motor Works, Inc., 920 N. 21st St., Lincoln, Neb.
 Frazer Farm Equipment Co., Auburn, Ind.
 Gladden Products Corp., 635 W. Colorado Blvd., Glendale 4, Calif. "Bee-Line."
 Homelite Corp., Port Chester, N. Y.
 International Harvester Co., Harvester Bldg., 180 W. Michigan Ave., Chicago 1, Ill.
 Jacobs Aircraft Engine Co., 750 Queen St., Pottstown, Pa.
 Kohler Co., Kohler, Wis.
 Lauson Co., 1604 Michigan St., New Holstein, Wis.
 Le Roi Co., 1706 S. 68th St., Milwaukee 14, Wis.
 McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 45, Calif.
 Novo Engine Co., 702 Porter St., Lansing 5, Mich.
 Onan & Sons, Inc., D. W., University Ave. S. E. at 25th St., Minneapolis 14, Minn.
 Reo Motors, Inc., 1331 So. Washington Ave., Lansing 20, Mich.

Sensation Mower, Inc., 7577 Burlington St., Ralston, Nebr.
 Universal Motor Co., 425 Universal Drive, Oshkosh, Wis.
 Waukesha Motor Co., E. St. Paul Ave., Waukesha, Wis.
 Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis.

ENGINES, Truck and Bus (Gasoline)
(Covering independent engine manufacturers)

Aircooled Motors, Inc., Liverpool Rd., Syracuse 8, N. Y. "Franklin."
 Brennan Motor Mfg. Co., 500 E. Water St., Syracuse, N. Y.
 Buda Co., 154th St. & Commercial Ave., Harvey, Ill.
 Continental Motors Corp., Muskegon 82, Mich. "Red Seal."
 Fagel Products Co., 789 Stow St., Kent, Ohio.
 Hall-Scott Motor Div. of ACF-Brill Motors Co., 2850 Seventh St., Berkeley 10, Calif.
 Hercules Motors Corp., 101 11th St., S. E., Canton 2, Ohio.
 Le Roi Co., 1706 S. 68th St., Milwaukee 14, Wis.
 Waukesha Motor Co., E. St. Paul Ave., Waukesha, Wis. (Truck, tractor and bus.)
 Willys-Overland Motors, Inc., Wolcott Blvd., Toledo 1, Ohio.

EXHAUST GAS INDICATOR, See Indicator, Carbon Monoxide

EXHAUST GAS REMOVING SYSTEMS

Brady Products Corp., 18th & Ebricht Sts., Muncie, Ind.
 Keeling & Co., Inc., 1028 Chamber of Commerce Bldg., Indianapolis, Ind.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich. "Monoxivent."
 National System of Garage Ventilation, Inc., 318 N. Church St., Decatur, Ill.

EXHAUST PIPES, See Pipes, Tail and Exhaust

EXHAUST PROTECTOR

(For Vertical Stack)

Canton Cast Products Co., 2400 13th St. N. E., Canton, Ohio. "Cancap."

EXPANDERS, Piston Ring

Antajan Industries, Ltd., 937 Post St., San Francisco 9, Calif. "Dri-Plex."
 Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. "Rollpex." (Expanding.)
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
 Royal Piston Ring Co., Bath, N. Y.
 Sealed Power Corp., 500 Sanford St., Muskegon 61, Mich.
 Smalley Accessories Corp., 224 W. Huron St., Chicago, Ill.
 Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXPANDERS, Piston Skirt (Inserts)

Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill.
 Haling Co., 1061 First Ave., Rochester, Minn.
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 Loock & Co. R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
 Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
 Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
 Roberts Mfg. Co., Rear 4104 Manchester St., St. Louis 10, Mo.
 Simplex Piston Ring Mfg. Co., 3830 Kelly Ave., Cleveland 14, Ohio.
 Thexton Mfg. Co., 1313 Winter St., Minneapolis 13, Minn.

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Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo. "Master Recams."

Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXPANDERS, Piston Skirt (Machines)

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A. D. L." (Electric.)

Badger Mfg. Co., 2326 S. Indiana Ave., Chicago 16, Ill.

Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill.

Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich. (Air operated hammers.)

McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo. "Permasizer."

Master Products Mfg. Co., 8480 E. 14th St., Los Angeles 28, Calif.

Moog Piston Ring Co., Div. of Moog Industries, Inc., 6653 Easton Ave., St. Louis 14, Mo. "Moog Dynamizer."

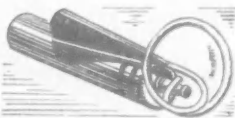
Perfect Circle Corp., 553 S. Washington St., Hagerstown, Ind. "Perfect Circle Nurli-ser."

Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramconizer."

Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.

Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis. "Precisionurl."

Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXTINGUISHERS, Fire (Portable)

Allen Mfg. Co., 566 W. Lake St., Chicago, Ill.

American-LaFrance-Foamite Corp., 100 E. LaFrance St., Elmira, N. Y. "Fire-Gun," "La France."

Ansul Chemical Co., Fire Extinguisher Div., Marinette, Wis. (Dry chemical.)

Anthes Force Oiler Co., Ft. Madison, Iowa.

Beacon Devices, Inc., 74 Olive St., North Tonawanda, N. Y. "Tireflator," "Jumbo Tire-flator." (Portable units, inflates tires or extinguishes fires.)

Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn. "Hero."

Buffalo Fire Appliance Corp., 221 Crane St., Dayton 1, Ohio.

C-O-Two Fire Equipment Co., P. O. Box 390, Newark 1, N. J.

Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago, Ill.

Diets Co., R. E., 225 Wilkinson St., Syracuse, N. Y.

Fire-Killer Mfg. Co., 107 N. Franklin St., Syracuse 1, N. Y.

Fyr-Fyter Co., 221 Crane St., Dayton, Ohio.

General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich. "General Quickair Fire-guard."

Kent Extinguisher Co., 830 Front St., N. W., Grand Rapids, Mich. "Pistol-Grip."

Kidde & Co., Inc., Walter, 675 Main St., Belleville 9, N. J. "Kidde."

Merlite Industries, Inc., 201 E. 6th St., New York 17, N. Y. "Presto."

Pirsch & Sons Co., Peter, 1308 35 St., Kenosha, Wis.

Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y.

Pyrene Mfg. Co., 560 Belmont Ave., Newark 8, N. J.

Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.

Safety Fire Extinguisher Co., 293 7th Ave., New York 1, N. Y.

Snyder & Son, M. L., Jasper & York Sts., Philadelphia 25, Pa. "Stempel."

Stop-Fire, Inc., 125 Ashland Pl., Brooklyn 1, N. Y.

Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

EXTRACTORS, Bolt and Screw

Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.

C. & G. Wheel Puller Co., Scio, N. Y. (Stud.)

Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. (Screw.)

Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. "Ezy-Out."

Cornwell Quality Tools Co., Mogadore, Ohio.

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.

Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "Little Giant."

Heli-Coil Corp., Shelter Rock Lane, Danbury, Conn. "Aero-Thread." (Stud.)

Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."

Keystone Reamer & Tool Co., Millersburg, Pa.

Loock & Co., R. J., 348 N. Gay St., Baltimore, Md. "Lightnin." (Screw.)

Morse Twist Drill & Machine Co., 162 Pleasant St., New Bedford, Mass.

New Britain Machine Co., South St., New Britain, Conn.

Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."

P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.

Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."

Quality Tools Corp., New Wilmington, Pa. "Oldforge."

Reps Tool Co., Box 5, Elmwood Branch, Hartford 10, Conn. (Also stud.)

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."

Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Screw.)

Whitman & Barnes Div. of United Drill & Tool Corp., Plymouth, Mich. (Screw.)

Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo.

Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. (Stud.)

Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W.-Nelson."

Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Lefty."

Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio.

EXTRACTORS, Bushing

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.

Beard Tool Co., L. O., Andrew & Friel Sts., Lancaster, Pa.

Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.

Cornwell Quality Tools Co., Mogadore, Ohio.

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.

Greb Co., 181 Canton St., Stoughton, Mass.

Ideal Mfg. Co., 2649 N. Kildare St., Chicago, Ill.

Kent Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."

Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors Letterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."

Truth Tool Co., 711 S. Front St., Mankato, Minn.

Ullmo Tool Co., 1561 E. 27th St., Cleveland, Ohio. "Double B & B."

Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Horn.)

FABRIC, Coated Cloth (For Curtains, Seat Covers, Tops and Upholstery)

Artercraft Fabrics, Inc., 8 W. 30th St., New York, N. Y.

Athol Mfg. Co., 71 Chestnut Hill Ave., Athol, Mass. "Terek," "Terson." (For curtains and upholstery.)

Atlantic Mercantile Corp., 109 W. 64th St., New York 23, N. Y. "Tuftex," "Khayamite," "Omarlite," "75," "32," "Stormolite," "Stormolon." (For tops.)

Blossom Mfg. Co., 915 Broadway, New York 10, N. Y. (For curtains.)

Burlington Mills, Inc., Burlington, Wis. "Burtex." (Plastic coated, for kick plates, dash seals, floor covering.)

Carpenter & Co., L. E., 170 N. Main St., Wharton, N. J. "Lactrex," "Victrex." (Vinyl; sole distributors, A. J. Auchterlonie, 537 Book Bldg., Detroit 21, Mich.)

Columbus Coated Fabrics Corp., 7th & Grant Aves., Columbus 16, Ohio. "Col-O-Tex." (For upholstery.)

Cotan Corp., 331 Oliver St., Newark 5, N. J. "Co Hyde," "Cotana." (For seat covers, tops and upholstery.)

Duncan Co., W. H., 319 Broadway, New York 7, N. Y. "Dunotex."

du Pont de Nemours & Co., E. I., Fabrics Div., Empire State Bldg., New York 1, N. Y. ("Teal" Rubberized; "Fabrikoid," "Fabrilite" for upholstery or trim.)

Duro-Gloss Rubber Co., 30 Lenox St., New Haven, Conn.

Federal Leather Co., 681 Main St., Belleville 1, N. J. "Fedball," "Fedcarriage," "Fedcoat."

Goodall-Sanford, Inc., Reading Div., Reading, Mass. "Leatherwove," "Kedolite."

Goodrich Co., B. F., 500 S. Main St., Akron 14, Ohio. "Koroseal."

Haartz Auto Fabric Co., 3 Bridge St., Newton 58, Mass. "Jonarts Cleaneasy," "Jonarts Harmony." (For tops and decking.)

Hettrick Mfg. Co., Summit & Magnolia Sts., Toledo, Ohio.

Joanna-Western Mills Co., 22nd & Jefferson Sts., Chicago, Ill. (Plastic coated for curtains, tops and upholstery.)

Landers Corp., Buckingham & Blucher Sts., Toledo 1, Ohio. "Karavan" for convertible tops; "Watertite" for top decks; "Vesilian" for upholstery.)

Masland Duralleather Co., Amber & Willard Sts., Philadelphia 34, Pa. "Duraal."

Mt. Vernon-Woodberry Mills (Turner Halsey Co., Sales Agent, 40 Worth St., New York, N. Y.)

National Automotive Fibres, Inc., 19925 Hoover Ave., Detroit 6, Mich. (Upholstery.)

Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y. (Top and decking.)

Oakland Textile Co., 379 Fourth Ave., New York 16, N. Y.

St. Clair Rubber Co., 440 Jefferson Ave., Detroit 26, Mich. "Clair-Tex."

Textileather Corp., 607 Madison Ave., Toledo 3, Ohio. "Textileather," "Tolax."

FABRIC, Coated Cloth (For Curtains, Seat Covers, Tops and Upholstery)—continued

Tower Co., A. J., 24 Simmons St., Boston 11, Mass. "Tower Proof."

Twitcheil, Inc., E. W., Third & Somerset Sts., Philadelphia 33, Pa. "Textilene Plaststrand." (Plastic coated, for seat covers)

United States Rubber Co., Coated Fabric Div., Miskawaka, Ind. "U. S. Naugahyde"

FABRICS, Uniform (Army Twill)

Reeves Brothers, Inc., 54 Worth St., New York 13, N. Y.

FACINGS, Clutch (Asbestos)

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 8, Mich.

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Dreadnaught."

Atlas Asbestos Co., North Wales, Pa.

Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill.

Gray-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.

Johns-Manville, 22 E. 40th St., New York 17, N. Y. "J-M."

Kerklings & Co., 12270 Montague St., Pacoima, Calif. "K&W."

Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.

National Brake Block Corp., 79 Madison Ave., New York, N. Y.

Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.

Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."

Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.

Russell Mfg. Co., E. Main St., Middletown, Conn. "Rusco."

Thermoid Co., 200 Whitehead St., Trenton 4, N. J.

World Bestos, S. 25th St., New Castle, Ind.

FACINGS, Clutch (Metallic)

Gray-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.

Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.

Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."

Wellman Co., S. K., 1374 E. 51st St., Cleveland 3, Ohio.

FAN BELTS, See Belts, Fan**FANS, Defrosting**

Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "HaDees."

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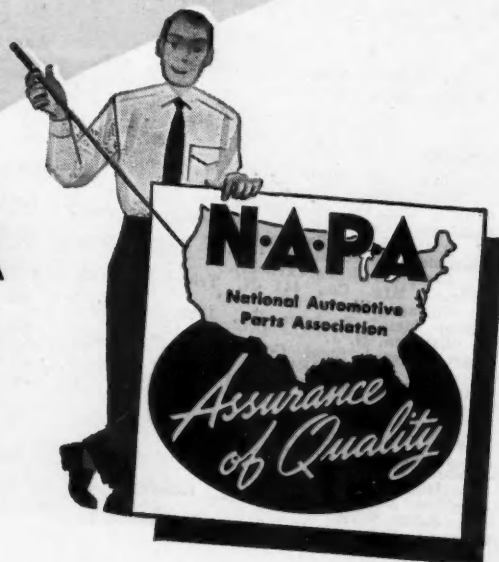
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BRIDGEPORT
TIRE VALVES & ACCESSORIES

BRIGGS
SHOCK ABSORBERS

BROWN LIPE
GLASS BOWLS

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TIMING GEARS

DETROIT
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PARTS • PACKING

MARTIN-SENGOUR
AUTOMOTIVE PAINTS

MicroTest
GEARS • AXLE SHAFTS

Modac
FAN BELTS AND
RADIATOR HOSE

Monmouth
ENGINE BEARINGS
CLUTCH PLATES & PARTS
CHASSIS PARTS

New Britain
HAND TOOLS

Allied PRECISION
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FLUID • AMCO • BUSHING
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GREASE RETAINERS

Spicer
UNIVERSAL JOINTS

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PUMP
HYDRAULIC BRAKE
SPEEDOMETER AND
SHOCK CABLES

Allied WISCONSIN
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ZOLLNER
PISTON EQUIPMENT

FANS, Defrosting—continued

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Casco." "Perfection." Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (For trucks and buses.) Diehl Mfg. Co., Findernie Plant, 1011 Findernie Ave., Somerville, N. J. (Ventilating for buses.) E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y. Evans Products Co., Plymouth, Mich. Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill. "Marvel." Lydon-Bricher Mfg. Co., 2500 University Ave., St. Paul 4, Minn. "McKay." (For buses and trucks.) Roto-Beam, 1755 N. Keeler St., Chicago 39, Ill. Samson United Corp., 1700 University Ave., Rochester 10, N. Y. "Samson Safe-flex." (Rubber bladed.) Signal Mfg. Co., 69 Bennett St., Lynn, Mass. Torrington Mfg. Co., Franklin St., Torrington, Conn. "Airstocrat." Trico Products Corp., 317 Washington St., Buffalo 3, N. Y. (Vacuum, defrosting.)

FANS, Exhaust Drying

American Blower Corp., Detroit 32, Mich. "ABC." "ABC Sirocco." American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brake-shoe." Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill. Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa. Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich. Despatch Oven Co., 619 Eighth St., S. E., Minneapolis 14, Minn. DeVilbiss Co., 300 Phillips Ave., Toledo 1, O. Diehl Mfg. Co., Findernie Plant, 1011 Findernie Ave., Somerville, N. J. Emerson Electric Mfg. Co., 8100 Florissant Ave., Detroit 21, Mich. Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago, Ill. Kirk & Blum Mfg. Co., 3119 Forrer St., Cincinnati 9, Ohio. "K & B." Marathon Electric Mfg. Corp., Super Air Screw Div., Cherry & Randolph Sts., Wausau, Wis. "Marathon M.E." Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco." Western Blower Co., 1800 Airport Way, Seattle, Wash. Westinghouse Electric Corp., Sturtevant Div., 15 Damon St., Hyde Park, Boston 36, Mass.

FANS, Radiator

De Bothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill. "De Bothezat." Eaton Mfg. Co., 739 E. 40th St., Cleveland 10, Ohio. Evans Products Co., Plymouth, Mich. Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich. "Autofan." Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog." (For Ford and Chevrolet cars.) Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind. "Hy Duty." Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind.

FELT, INSULATING, See Insulation, Felt, Hair, Paper, etc.

FENDERS

Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio. Binkley Mfg. Co., Warrenton, Mo. (Truck.) Budd Mfg. Co., Edw. G. Hunting Park Ave. & 25th St., Philadelphia, Pa. Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Truck.) Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. Cutler Metal Products Co., 1029 Line St., Camden, N. J. Hart Pressed Steel Corp., 3306 Hammond Ave., Elkhart, Ind. Kirk & Blum Mfg. Co., 3119 Forrer St., Cincinnati 9, Ohio. "K & B." (Bus and truck.) Metal Auto Parts Co., Chase & Henry Sts., Indianapolis 7, Ind. Motors Metal Mfg. Co., 5936 Milford Ave., Detroit 10, Mich. Mullins Mfg. Corp., 605 S. Ellsworth St., Salem, Ohio. Murray Corp. of America, 7700 Russell St., Detroit 11, Mich.

Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M." Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio. (Bus, truck and fire engines.) Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich. (Truck.) Stolper Steel Products Corp., 300 Tipp St., Menominee Falls, Wis. York Corrugating Co., Adams St. & W. Md. R. R., York, Pa. (Truck and trailer.)

FIFTH WHEELS, See Wheels, Fifth**FILES, Contact Point**

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill. Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa. Heller Bros. Co., 865 Mt. Prospect Ave., New York, N. Y. K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. Loock & Co., K. J., 343 N. Gay St., Baltimore, Md. "Lightnin." Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." Miller Co., L. B., 394 State St., Stamford, Conn. National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco." New Britain Machine Co., South St., New Britain, Conn. Nolvex File Co., 10329 Detroit Ave., Cleveland 12, Ohio. Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point." Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Contacto." "Tungsto." "Taconite." "Vim." Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

FILTERS, AIR, See Cleaners, Air**FILTERS, Coolant**

American Oetator Corp., 2107 Industrial Trust Bldg., Providence, R. I. "Gazda Derusticator." (Magnetic.) Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I. Spark-O-Linor Corp., Minneapolis, Minn.

FILTERS, Diesel, Fuel

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. American Bosch Corp., 3664 Main St., Springfield 7, Mass. Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C. Commercial Filters Corp., A & W 3 Sts., Boston 27, Mass. "Fulfilo." DeLuxe Products Corp., 1435 Lake St., La Porte, Ind. Hilliard Corp., 113 W. Fourth St., Elmira, N. Y. "Hilco." Lubber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif. Michiana Products Corp., Sheet Steel Div., Michigan City, Ind. Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J. Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich. Sparkler Mfg. Co., Lake St., Mundelein, Ill. W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y. Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.

FILTERS, Gasoline

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. Airtex Automotive Div., Chefford Master Mfg. Co., Fairfield, Ill. (Equipped with damper.)

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built." Autopulse Corp., 218 E. Dowland St., Ludington, Mich. Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn. Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I. Hygrade Products, Div. Standard Motor Products, Inc., 35-35 35th St., Long Island City 1, N. Y. Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. "Kem-Aero." Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill. Lubber-Finer, Inc., 2514 S. Grand Ave., Los Angeles, Calif. Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Durex." Purolator Products, Inc., 744 Broad St., Newark 2, N. J. Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich. Sparkler Mfg. Co., Lake St., Mundelein, Ill. Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo 12, Ohio. "Fil-Trap." Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

FILTERS, Oil

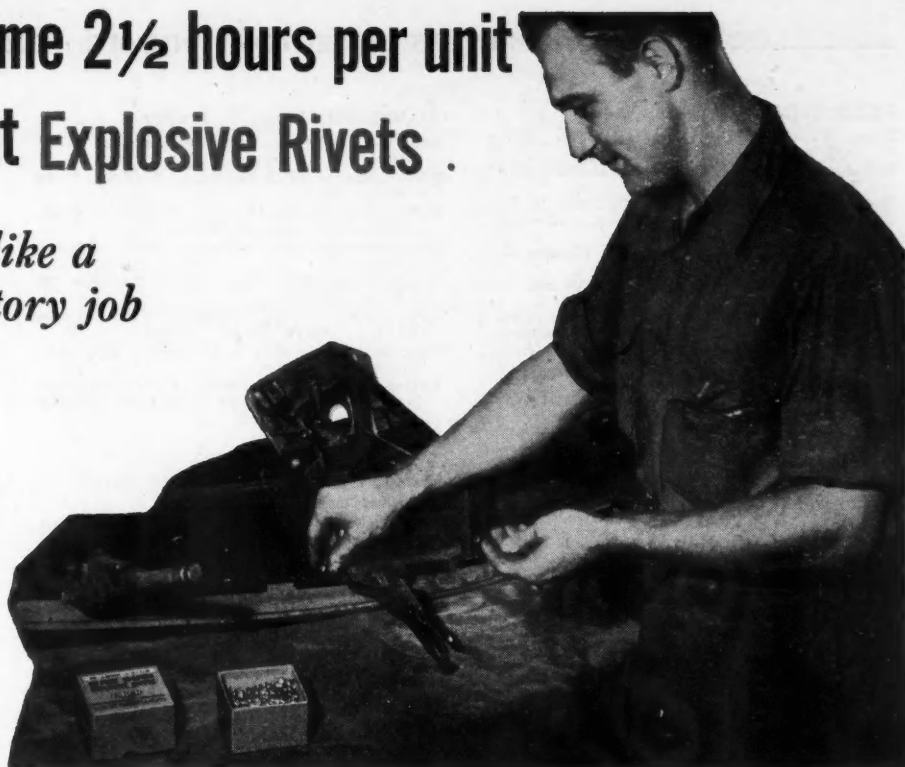
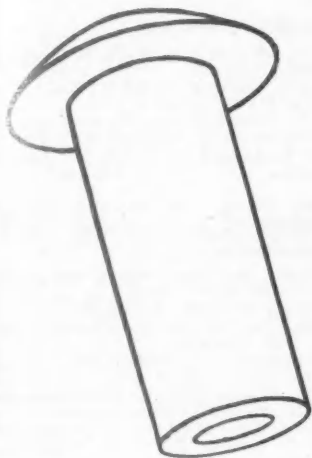
(See also Reclaimers, Crankcase, Oil) AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. Bolser Corp., S. Main St., Cedar Falls, Iowa. "Re-Pak-It." Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C. Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio. Champion Laboratories, Inc., 122 Charles St., Meriden, Conn. "Cham." Commercial Filters Corp., A & W 3 Sts., Boston 27, Mass. "Fulfilo." Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn. De Luxe Products Corp., 1435 Lake St., La Porte, Ind. Filters, Inc., 30 Sagamore Hill Dr., Port Washington, L. I., N. Y. (Sole distributors, Bowman Products Co., Cleveland 3, Ohio.) Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I. "Col-Pak." "Fram Fil-crom." General Filters, Inc., 12890 Westwood Ave., Detroit 23, Mich. Hilliard Corp., 113 W. 4th St., Elmira, N. Y. "Hilco." Honan-Crane Corp., Lebanon, Ind. Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis. Lubber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif. Michiana Products Corp., Sheet Steel Division, Michigan City, Ind. "H-W-Filter." "Michiana." Nugent & Co., Wm. W., 410 W. Hermitage Ave., Chicago 22, Ill. Oilpure Refiner Co., 5406 San Fernando Rd., Glendale, Calif. Pick Mfg. Co., West Bend, Wis. Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J. Reclamo Mfg. Co., 5083 Elston Ave., Chicago, Ill. "Re-Clamo." South Gate Brake Specialties Co., 1355 E. Washington Blvd., Los Angeles 21, Calif. "Filcolator." Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich. W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y. Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Walker Laminar." Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif. Wix Accessories Corp., 1211 Ozark St., Gastonia, N. C.

FILTERS, Oil Refills

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. Air Cleaner Service Co., 1717 S. Acoma St., Denver 10, Colo. "Cyclone." Bolser Corp., S. Main St., Cedar Falls, Iowa. Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.

Cuts grill repair time 2½ hours per unit with Du Pont Explosive Rivets .

*...and it looks like a
factory job*



In assembling hoods and grills in their busy repair shop, the Wilmington Motor Sales Company, Wilmington, Delaware, uses Du Pont Hi-Speed Industrial Explosive Rivets. These modern fasteners simplify the operation... save a surprising amount of time.

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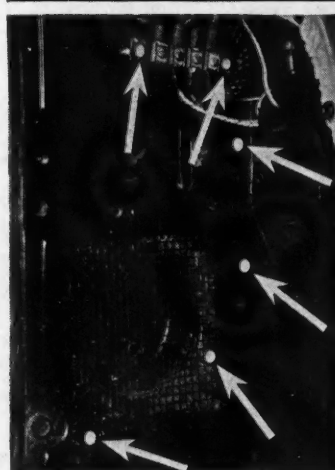
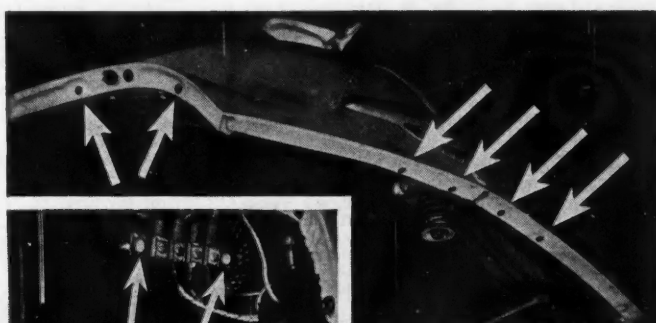


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... THROUGH CHEMISTRY

↑ **EXPLOSIVE RIVETS** are readily placed in drilled holes of grill parts. Close tolerances are unnecessary. Job takes 12 Explosive Rivets.

HEATED IRON expands Explosive Rivets in less than 2 seconds. Smooth heads of Rivets require no after-finishing, filing or polishing. Barrel-shaped head formed on opposite end of Explosive Rivet securely locks parts in place.



↑ **FRONT BAFFLE** on each side and upper latch at front end of hood assembly are typical fastening jobs, quickly and neatly done with Du Pont Explosive Rivets.

◀ **JUNCTION BLOCK** for light wiring assembly and front fender baffle are easily fastened in place with Explosive Rivets. Note also that these are blind-fastening jobs.

FILTERS, Oil Refills—continued

Briggs Filtration Co., Automotive Div., River Rd., Washington 16, D. C.
 Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
 Campbell Filter & Mfg. Co., Rumford, R. I.
 Casite Div., Hastings Mfg. Co., Hastings, Mich. "Densite."
 Champion Laboratories, Inc., 122 Charles St., Meriden, Conn. "Champlab."
 De Luxe Products Corp., 1435 Lake St., La Porte, Ind.
 Filtrors, Inc., 30 Sagamore Hill Dr., Port Washington, L. I., N. Y. (Sole distributors, Bowman Products Co., Cleveland 3, Ohio.)
 Fram Corp., 55 Pawtucket St., East Providence 16, R. I. "Fram Filtron."
 Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
 Oil-Purifier, Inc., 3450 Broadway, Oakland, Cal.
 Plek Mfg. Co., West Bend, Wis.
 Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
 Refill Filter Co., 120 Rhode Island Ave., East Orange, N. J. "Retilco."
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
 Winslow Engineering Co., 4069 Hollis St., Oakland 8, Cal.
 Wix Accessories Corp., 1211 Ozark, Gastonia, N. C.

FILTERS, Oil (Transmission)

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.

FIRE ENGINES, See Trucks, Fire**FLARES, Highway Lighting**

American Automatic Devices Co., Throop St., Chicago 7, Ill. "King Bee Ace," "King Bee Fuel-Tite," "King Bee Special." (Oil burning.)
 Anthes Force Oiler Co., Ft. Madison, Iowa. (Oil burning and electric; also fuses.)
 Arrow Safety Device Co., Mt. Holly, N. J. (Oil burning; also fuses.)
 Bolser Corp., S. Main St., Cedar Falls, Iowa. (Oil burning.)
 Busch & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill. "Safety-Flare." (Plugs into cigar lighter.)
 Carpenter Mfg. Co., Sidney & Erie Sts., Cambridge, Mass. "Carpenter Master-Lites." (Electric and electric flasher type.)
 Delbar Products, Inc., 7th & Spruce Sts., Perkasie, Pa. (Also fuses.)
 Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Oil burning; also fuse type.)
 Do-Ray Lamp Co., 1468 S. Michigan Ave., Chicago 5, Ill. (Electric and kerosene.)
 Emarco Corp., Far Hills Station, Dayton 9, Ohio. "Tharo-Flare."
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Oil burning.)
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Oil burning and electric; also fuses.)
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn. S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
 Standard Railway Fusee Corp., Signal Flare Div., Box 30-C, Needham Heights 94, Mass. (Fuses.)
 Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Oil burning; also fuses.)
 Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco." (Electric.)
 U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. (Big Beam.)
 Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Oil burning.)

FLARING TOOLS, See Tools, Tube Flaring**FLASHERS, for Directional Signals**

Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
 Signal-Stat Corp., 523 Kent Ave., Brooklyn 11, N. Y.
 Tung-Sol Lamp Wks., Inc., 95 8th Ave., Newark 4, N. J.

FLEET RECORDS, See Forms**FLOOR COVERING, See Covering, Floor****FLOOR RESURFACERS, See Resurfacing, Floor****FLOORING, Truck & Trailer**

Alan Wood Steel Co., Conshohocken, Pa. "A.W." (Steel.)
 Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa.
 Brown Trailers, Inc., Box 54, Spokane 1, Wash.
 "Coralite." (Aluminum alloy.)
 Dow Chemical Co., Midland, Mich. (Magnesium.)
 Great Lakes Steel Corp., Ecorse, Detroit 29, Mich. (Steel.)
 Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. "Inland 4-Way." (Steel.)
 Reynolds Metals Co., Louisville 1, Ky. (Aluminum.)
 Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.

FLUID, Hydraulic Brake and Shock Absorber

Allube Corp., 928 Allen Ave., Glendale 1, Calif.
 Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
 Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
 Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
 Carbide & Carbon Chemical Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York, N. Y. "Ucon," "Cellosolve." (Brake.)
 Chicago Hydraulic Oil Co., 371 E. 116 St., Chicago 28, Ill. "Brakrite" & "Safe-Brake" (Brake); "Shockoil," "Hijoyl," "Lojoyl" (shock absorber.)
 Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Els Automotive Corp., Middletown, Conn. (Brake.)
 Excello Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Xcelo." (Brake.)
 Farback Chemical Co., Chase & Dane Sts., Cincinnati 23, Ohio. "Hy-Bra."
 Fidelity Mfg. Co., Front & Bridge Sts., Catsaqua, Pa. "Alrite," "Fidelity," Shock absorber; "Hydro-Loc" brake.)
 Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
 Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whis."
 International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
 Kelly Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Kelco." (Brake.)
 Loreman Automotive Products, Moore & Division Sts., Salisbury, Md. (Brake.)
 Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Delco." (Brake.)
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Brake.)
 Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
 Penetone Co., 74 Hudson Ave., Tenafly, N. J. (Brake.)
 Permatex Co., 1720 Ave. Y, Brooklyn 35, N. Y.
 Porto Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y. "Porto."
 Purfex Mfg. Co., Box 118, Collegeville, Pa. (Brake.)
 Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
 Radiator Specialty Co., 1700 Dowd Rd., Charlotte 1, N. C. (Brake.)
 Shell Oil Co., 50 W. 50th St., New York 30, N. Y.
 Sinclair Refining Co., 630 Fifth Ave., New York, N. Y. (Brake.)
 Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobilfluid." (Brakes.)
 Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
 Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
 Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa. "Sunoco." (Shock absorber.)
 Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
 Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J. (Brake.)
 Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
 U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
 United States Avicor Co., 1350 Maple St., Niles, Mich. (Brake.)
 V-O Mfg. Co., 13245 Sherman Ave., North Hollywood, Calif.
 Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th St., Chicago 19, Ill. "Dutch Brand."

Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed." (Brake.)
 Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."
 Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y. "Warco."
 Wilco Co., 4425 Bandini Blvd., Los Angeles 21, Calif.

FLUID STARTING (For Diesels)

California Oil Co., The, Barber, N. J. "Cheron."

FLUSHERS, Crankcase

Gray Co., 60 11th Ave., N.E., Minneapolis 12, Minn. "Graco."
 Hydro-Air Cleaning Systems, Inc., 2130 E. 105th St., Cleveland 6, Ohio.
 K & W Products, Inc., 8319 Allport Ave., Whittier, Calif. "K & W."
 Master Equipment Corp., 15 N. Broadway, Dayton, Ohio. "Flush Masters."

FLUSHERS, Differential and Transmission

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
 Aero Equipment Corp., Bryan, Ohio.
 Coil Mfg. Co., 1001 N. Fares Ave., Evansville 11, Ind. (Guns.)
 Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Rose."
 Gray Co., 60 11th Ave., N. E. Minneapolis 12, Minn. "Graco." (Gear flushers.)
 Homestead Valve Mfg. Co. (Hypersure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypersure Jenny."
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (Flushers.)

FLUSHERS, Radiator and Block (Portable)

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo." (Guns.)
 Brady Corp., 18th & Elbright Sts., Muncie, Ind. (Electric powered unit.)
 Choldun Mfg. Corp., 11 W. 42nd St., New York 18, N. Y. "Pressure Purger."
 Drew & Co., E. F., 15 East 26th St., New York 10, N. Y.
 Holcomb & Hoke Mfg. Co., 1545 Van Buren St., Indianapolis, Ind. "Moto Saver."
 Homestead Valve Mfg. Co. (Hypersure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypersure Jenny." (Nozzles.)
 Industrial Research, Inc., 1755 S. Central Ave., Phoenix, Ariz. "Flush-O-Matic."
 Inland Mfg. Co., 1108 Jackson St., Omaha 4, Neb.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Liquid Veneer Corp., Urban & Kehr Sts., Buffalo 11, N. Y. "Furgo Ejector."
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. (Guns.)
 Sodrin Mfg. Co., 2748 McGee Trafficway, Kansas City, Mo. (Guns.)
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Ra-Bloc."
 Universal Chemists, 107 Northampton St., Boston, Mass. "Hy-Power." (Guns.)

FLUX, WELDING, See Compounds, Welding**FOG LIGHTS, See Lamps, Fog, Road and Spot****FORK LIFT TRUCKS—See Trucks, Lift****FORMS (for Fleet Records)**

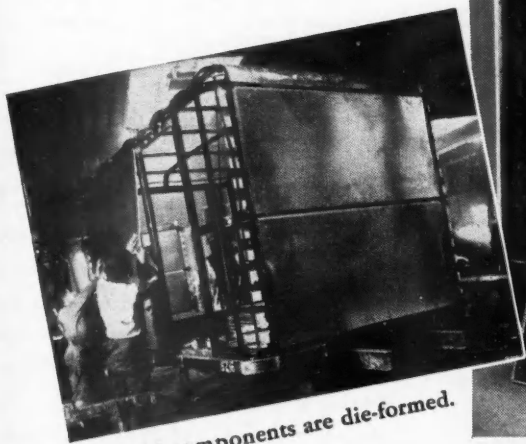
Fleet Forms Co., 1410 N. High St., Columbus 14, Ohio.
 Milbin Printing Co., 132 W. 22nd St., New York 11, N. Y.
 Uarco, Inc., 5000 S. California Ave., Chicago 32, Ill.

FOUNTAIN BRUSHES, See Washers, Fountain Brushes & Mops**FRAMES (Pressed Steel)**

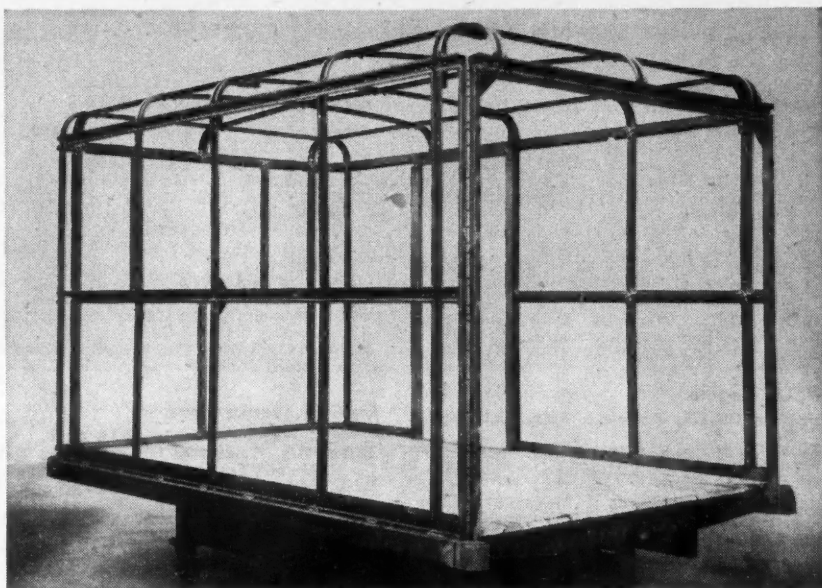
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.

HERE'S WHY

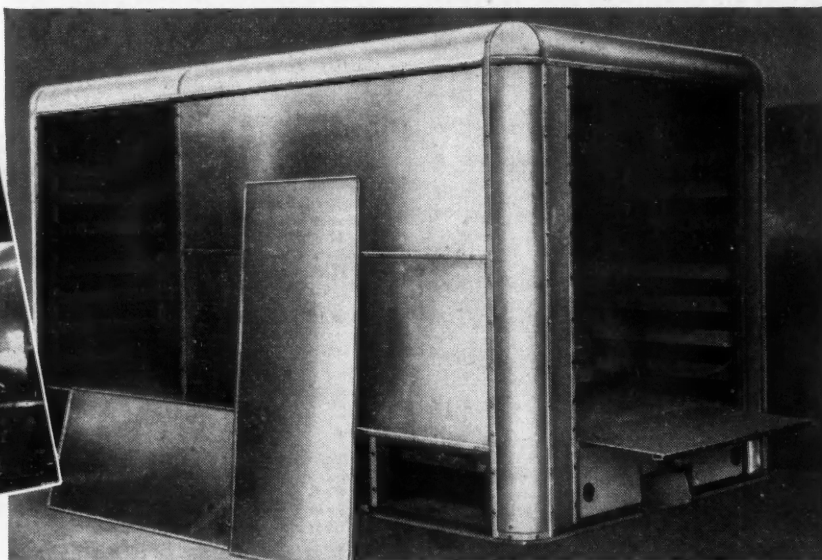
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5000 West Dempster St., Skokie, Illinois

U. S. Patents 2017629, 2263510, 2263511
U. S. and Foreign Patents and Patents Pending

FRAMES (Pressed Steel)—continued

Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich.
 Murray Corp. of America, 7700 Russell St., Detroit 11, Mich.
 Parish Pressed Steel Co., Robison & Weiser Sts., Reading, Pa.
 Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
 Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Parish."

FRONT END Alignment Equipment. See Gages, Wheel & Axle Aligning

FUELS, Engine

American Oil Co., American Bldg., Baltimore, Md.
 Associated Division, Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco, Calif.
 Atlantic Refining Co., 260 S. Broad St., Philadelphia, Pa.
 Cities Service Oil Co., 60 Wall Tower, New York 5, N. Y.
 Continental Oil Co., Continental Oil Bldg., Ponca City Okla.
 Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
 Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
 Gulf Oil Corp., Gulf Building, Pittsburgh, Pa.
 Mid Continent Petroleum Corp., Tulsa 2, Okla.
 Pennsylvania Refining Co., Butler Savings & Trust Co., Butler, Pa.
 Phillips Petroleum Co., Bartlesville, Okla.
 Pure Oil Co., The, 35 E. Wacker Drive, Chicago 1, Ill.
 Richfield Oil Corp., Richfield Bldg., 555 S. Flower St., Los Angeles 13, Calif.
 Shell Oil Co., Shell Bldg., San Francisco, Calif.
 Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
 Sinclair Refining Co., 630 Fifth Ave., New York 20, N. Y.
 Socony Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
 Standard Oil Co. of California, Standard Oil Bldg., San Francisco, Calif.
 Standard Oil Co. (Indiana), 910 S. Michigan St., Chicago 80, Ill.
 Sun Oil Co., Marcus Hook, Pa.
 Texas Co., The, 135 E. 42nd St., New York 17, N. Y.
 Tide Water Associated Oil Co., 17 Battery Place, New York, N. Y.
 Union Oil Co. of California, Wilmington, Calif.

FUEL FILTERS. See Filters, Gasoline; also Filters, Diesel, Fuel

FUEL INJECTORS, DIESEL. See Injector Systems, Gasoline and Diesel Engine

FUEL LINES, FLEXIBLE. See Tubing, Oil and Gasoline Line

FUEL PUMP PARTS. See Parts, Fuel Pump

FUEL PUMP TESTERS. See Testers, Fuel Pump

FUEL PUMPS. See Pumps, Fuel

FUSEES. See Flares, Highway Lighting

FUSES, Electric

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
 Anthes Force Oilier Co., Ft. Madison, Ia.
 Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
 Busmann Mfg. Co., 2536 W. University St., St. Louis 7, Mo. "Buss," "Buss Fustats," "Fusetrons."
 Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
 General Electric Co., Const. Materials Dept., Bridgeport, Conn.
 K-D Lamp Div. Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
 Killark Electric Mfg. Co., 123 Mercer St., St. Louis 12, Mo.
 Kirkman Engineering Corp., 121 Sixth Ave., New York 13, N. Y. "K-E," "Kirkman Fustats," "Kirkman Thermofuses," "Peak Lag."
 Littelfuse, Inc., 4757 Ravenswood Ave., Chicago 40, Ill.
 Reynolds Mfg. Co., 1806 Alamo National Bldg., San Antonio 5, Tex. "Remco."
 Royal Electric Co., Pawtucket, R. I.
 Ware Bros., 4406 W. Lake St., Chicago, Ill. "W-B."

GAGES, Brake Drum

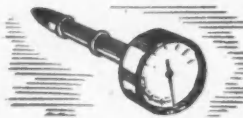
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
 Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
 C. & G. Wheel Puller Co., Scio, N. Y.
 Grigg Specialty Tools, 7523 Santa Fe Ave., Huntington Park, Calif.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
 Van Norman Co., 3640 Main St., Springfield 7, Mass. "Diam-A-Gage."
 Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

GAGES, Brake Shoe

C. & G. Wheel Puller Co., Scio, N. Y.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. "TruBrake."
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
 Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

GAGES, Cylinder

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
 Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic brake.)
 Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C.S." (Hydraulic brake.)
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. "Centromatic." (Sole distributors. Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.)
 Standard Gage Co., Poughkeepsie, N. Y.
 Starrett Co., L. S., 1 Crescent St., Athol, Mass.
 Swedish Gage Co., 8900 Alpine Ave., Detroit, Mich.

GAGES, Cylinder, Compression

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
 Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
 Araco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
 Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa. (Diesel engine.)
 Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Compressorometer."
 Gale Hall Engrg. Inc., 107 Northampton St., Boston 18, Mass. "Jet-matic," "Test Master."
 G. M. Co Mfg., Inc., 13-08 43rd Ave., Long Island City, N. Y.
 Griswold Mfg. Co., F. T., 305 W. Lancaster Ave., Wayne, Pa. "Motorstat." (Leak tester.)
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 Mack Products Co., 15 Putnam St., Winthrop, Mass.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 Powercraft Corp., 2502 S. Wabash Ave., Chicago. "Powerflo." (Sole distributors, Lethersone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Republic Gage Co., 2220 Fenkell Ave., Detroit 21, Mich.
 Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
 Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac." (Vacuum.)
 Schauer Mfg. Corp., 2060 Reading Road, Cincinnati 2, Ohio.

Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Weidenhoff, Inc., Joseph, Algona, Iowa. (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

GAGES, Dial

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
 Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
 Dow Mechanical Corp., Thompsonville, Calif.
 Federal-Mogul Service, Detroit 13, Mich.
 Federal Products Corp., 1144 Eddy St., Providence, R. I. (Indicator.)
 Nilsson Gage Co., Lake & Fairview Sts., Poughkeepsie, N. Y. "Nilco."
 Rimat Machine Tool Co., 1117 Air Way, Glendale 1, Calif. (Bore.)
 Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
 Standard Gage Co., Poughkeepsie, N. Y.
 Starrett Co., L. S., 1 Crescent St., Athol, Mass.

GAGES, Engine Vacuum

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
 Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
 Araco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
 Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
 Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Motor Peaker."
 Gale-Hall Engineering, Inc., 236 Huntington Ave., Boston 15, Mass.
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa. (Also for permanent installation on car.)
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
 Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
 Schauer Mfg. Corp., 2060 Reading Road, Cincinnati 2, Ohio.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
 Weidenhoff, Inc., Joseph, Algona, Iowa. (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

GAGES, Gasoline (Dash Type)

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
 Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
 King-Seely Corp., 315 S. First St., Ann Arbor, Mich. "K-S Telegage."
 Stewart-Warner Corp., Instrument Div., 1836 Diversey Parkway, Chicago, Ill. (Electric.)
 United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa. (Electric.)

GAGES, Gasoline (Tank Type)

Boston Auto Gage Co., 70 West St., Pittsfield, Mass. "Triumph."
 Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
 Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.

GAGES, Liquid Level (in Storage Tanks)

Bristol Co., Instrument Div., 117 Bristol Rd., Waterbury, Conn.
 Liquidometer Corp., 39-20 Skillman Ave., L. I. City, N. Y.
 Tokheim Co., 119 C Ave., N.W., Cedar Rapids, Ia.

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Rivers Body Factory, Tampa
West Florida Equipment Company, Marianna

GEORGIA

Truck Parts Company, Inc., Atlanta

IDAHO

The Lang Company Incorporated, Boise

ILLINOIS

Auto Truck Equipment Sales, Chicago
Drake-Scruggs Equipment Company, Springfield
Bill Montgomery Body & Trailer Mfr., Salem
Nix Brothers, Olney
Scruggs-Drake Equipment Company, Decatur
Veltz Brothers, Inc., Chicago

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South Side Equipment Co. Inc., Indianapolis
Truck Engineering Company, Inc., Fort Wayne
Roy C. Wayne Supply Company, Evansville

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E. Cohn & Sons, Inc., Cedar Rapids
Pecaut Industrial Supply Company, Sioux City
Weston Dump Body Company, Des Moines

KANSAS

Truck Parts and Equipment, Inc., Wichita

KENTUCKY

Roy C. Wayne Supply Company, Ashland
Roy C. Wayne Supply Company, Louisville
Roy C. Wayne Supply Company, Paducah

LOUISIANA

Dealers Truck Equipment Co., Inc., Shreveport
Massart Tire and Supply, Lafayette
Massart Tire and Supply, Lake Charles

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Watson Automotive Equipment Co., Baltimore

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Springfield Commercial Body Co., Inc., Cambridge

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I. H. Gingrich and Sons, Grand Rapids
Herthornway Export Corporation, Detroit
Swift All-Steel Body Company, Saginaw

MINNESOTA

Smith-Dunn Company, Inc., Duluth
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A. P. Lindsey, Distributor, Inc., Jackson

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Bailey Auto Body Company, St. Louis
Rothschild's, Joplin

MONTANA

Smith Equipment Company, Great Falls

NEBRASKA

Badger Body Manufacturing Company, Omaha
Highway Equipment and Supply Co., Lincoln

NEW JERSEY

Adam Black & Sons, Inc., Jersey City
Transportation Equipment Company, Newark

NEW MEXICO

M & F Equipment Company, Albuquerque
Watson Truck and Supply, Hobbs

NEW YORK

Binghamton-Hell Equipment Corporation, Vestal
Brinberg Body Builders, Long Island City
Maday Body and Equipment Corp., Buffalo
Maday Body and Equipment Corp., Rochester
Syracuse Auto Parts, Inc., Syracuse

NORTH CAROLINA

Mitchell Distributing Company, Inc., Raleigh
Mitchell Distributing Company, Inc., Spruce Pine
Twin-States Equipment Company, Charlotte
Twin-States Equipment Company, Raleigh

NORTH DAKOTA

Smith, Incorporated, Fargo

OHIO

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Buckeye Supply Company, Zanesville
The Carnegie Body Company, Cleveland
Carroll & Edwards Co., Cincinnati
Kencar Equipment Company, Dayton
Middlekauff, Inc., Toledo
Weaver Trailer & Body Co., Columbus

OKLAHOMA

American Body and Trailer, Inc., Oklahoma City
American Body and Trailer, Inc., Tulsa
Leland Equipment Company, Oklahoma City
Leland Equipment Company, Tulsa

OREGON

Western Equipment Company, Eugene
Western Equipment Company, Portland
Western Equipment Company, Roseburg

PENNSYLVANIA

Doerr Brothers, Inc., Pittsburgh
Eastern Body Company, Philadelphia
Trailco Mfg. & Sales Co., Hummel's Wharf

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Pecaut Industrial Supply Company, Sioux Falls
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Furlow-Cate, Inc., Chattanooga
Martin Machinery & Supply Company, Knoxville
Martin Machinery & Supply Company, Nashville
Rogers Manufacturing Company, Inc., Nashville
Scruggs Equipment Company, Memphis

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Adams Truck Company, Inc., San Antonio
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Commercial Truck Company, Lubbock
Alex Feigelson Company, Beaumont
French Tool and Supply Company, Odessa
Hobbs Trailer Sales Company, El Paso
Leland Equipment Company, Longview
Don Maxwell Company, Odessa
Oilfield Truck Equipment Company, Dallas
Oilfield Truck Equipment Company, Houston
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Truckers Equipment, Inc., Harlingen
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Phil Wood Industries Limited, Windsor, Ontario

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Cia Agro-Mecanica Industrial Campalva, S. A., Habana

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Scully Signal Co., 84 First St., Cambridge, Mass.
 Uehling Instrument Co., 473 Getty Ave., Paterson 8, N. J.

GAGES, Oil Level

Electric Auto-Lite Co., Instrument Div., La Crosse, Wis.
 Oil-Eye of America, 51 Walnut St., Winona, Minn. (Also indicates condition of oil.)
 Parkwood Mfg. Co., 606 Williamson Bldg., Cleveland 14, Ohio. "Oil-Spy." (Instrument panel type; sole distributor, Frank A. Nealon Associates, 20 N. Wacker Drive, Chicago 6, Ill.)
 Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
 Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill. (Electric.)

GAGES, Oil Pressure



AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
 Dunn Mfg. Co., 117 15th St., Clarinda, Iowa. "Majestic." (For Ford cars.)
 Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
 Foxboro Co., Neponset Ave., Foxboro, Mass.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 King-Seely Corp., 315 S. First St., Ann Arbor, Mich. "K-S Telegraph."
 Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
 Schwarze Electric Co., Church St. at Payne Ave., Adrian, Mich. "Teloil." (For Ford cars.)
 Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.

GAGES, Thickness or Feeler

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
 Arasco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
 Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
 Cornwell Quality Tools Co., Mogadore, Ohio.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
 Federal Products Corp., 1144 Eddy St., Providence, R. I. (Thickness.)
 Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
 Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Akuret."
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Keystone Reamer & Tool Co., Millersburg, Pa.
 Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 26, Mich.
 Lufkin Rule Co., Hess Ave., Saginaw, Mich.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Michler, R. W., Ferris, Calif. "Go No Go."
 Miller Co., L. B., 394 State St., Stamford, Conn.
 Millers Falls Co., Greenfield, Mass.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., South St., New Britain, Conn.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
 P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Proto Tools, 2209 Santa Fe Ave., Los Angeles, 54, Calif.
 Rorty Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."

Starrett Co., L. S., 1 Crescent St., Athol, Mass. (Also feeler stock.)
 Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Ideal."
 Union Tool Co., 48 E. River St., Orange, Mass.
 Van Keuren Co., 176 Waltham St., Watertown, Mass.
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
 Zoerman-Clark Mfg. Co., Jackson, Mich.

GAGES, Tire Pressure

(See also Meters, Air Tower)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
 Amseco Inc., 564 W. Randolph St., Chicago 6, Ill.
 Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
 Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
 Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
 Drue Bros. Mfg. Co., 838 92nd Ave., Oakland 3, Calif. "Tru-Plate."
 Electric Auto-Lite Co., Instrument Div., La Crosse, Wis.
 G.M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.
 Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
 Syracuse Gauge Mfg. Corp., 113 S. Midler Ave., Syracuse, N. Y. "Hand-D."

GAGES, Water Temperature

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
 Electric Auto-Lite Co., Instrument Div., La Crosse, Wis.
 King-Seely Corp., 315 S. First St., Ann Arbor, Mich.
 Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
 Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
 United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.

GAGES, Wheel and Axle Aligning

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. "Visualiner."
 Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
 Bee-Line Co., Box 569, Davenport, Iowa.
 Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
 Bennett-Ferguson, Inc., 1008 S. Lafayette Blvd., South Bend 18, Ind.
 Cornwell Quality Tools Co., Mogadore, Ohio. "Cornwell-Krumm."
 Doby Co., John F., 744 Gallivan Blvd., Dorchester 22, Mass. "Doby," "Ideal."
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Krumm Mfg. Co., T. F., 5150 Lewis Ave., Toledo 12, Ohio.
 Kwik-Ezee, Inc., 17 W. 60th St., New York 23, N. Y.
 Manbes Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
 Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo.
 Mesco Products, Crete, Nebr.
 Micro-Linor Service, 1017 Dime Bldg., Detroit 26, Mich.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 Stephenson Fdry. & Mfg. Co., 543 E. Fort St., Detroit 26, Mich. "Step-Draulic."
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
 Wilco Products, Inc., 595 Valley St., Orange, N. J.
 Zoerman-Clark Mfg. Co., Jackson, Mich.

GAS, Acetylene

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Alroco."
 Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdex."
 Independent Engineering Co., O'Fallon, Ill.
 Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Prest-O-Lite." (Cylinders.)
 Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)

National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)

GAS, Hydrogen

Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
 Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
 Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
 National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)

GAS, LP, See Fuels, Engine

GAS, Oxygen

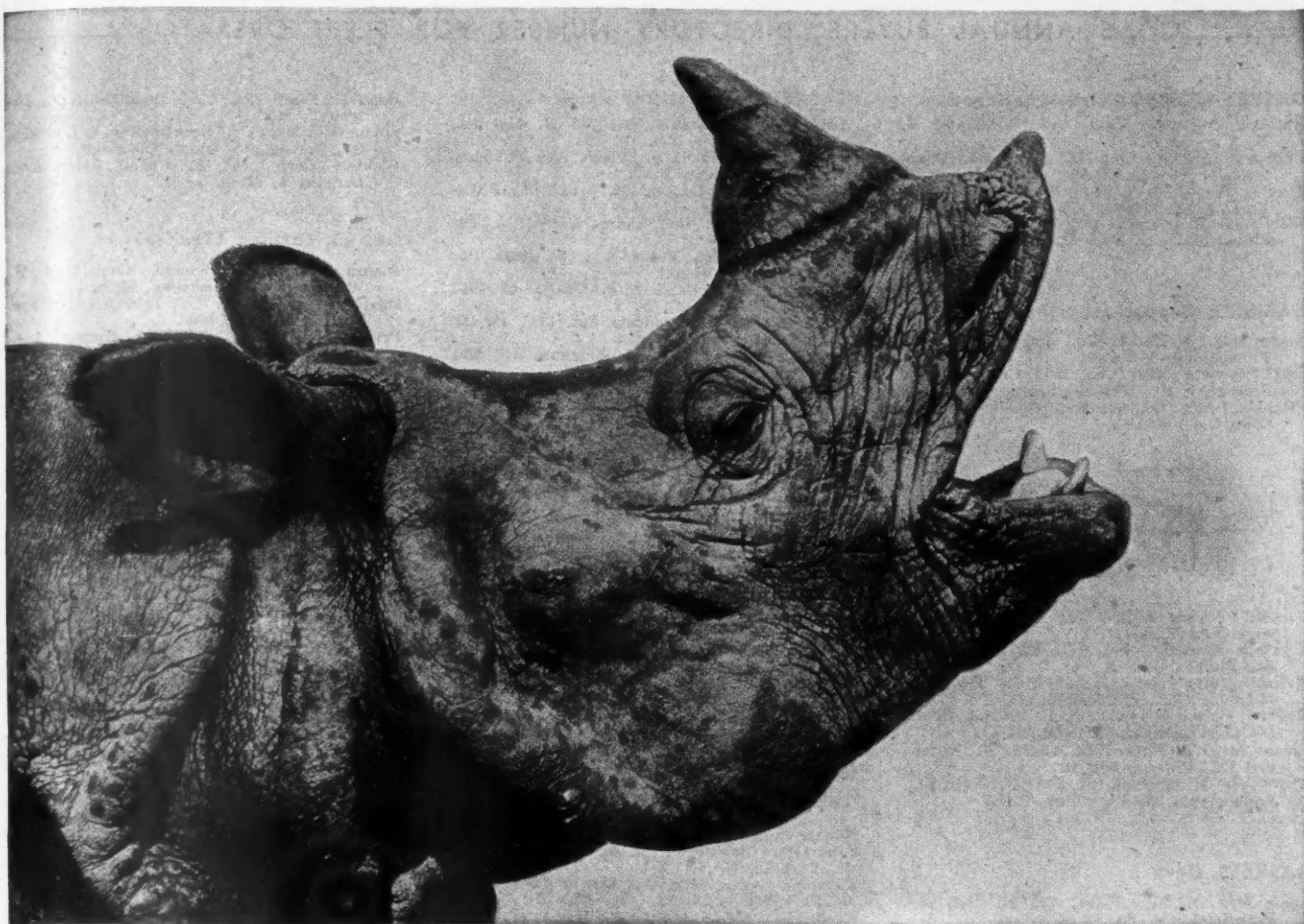
Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Alroco."
 Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
 Independent Engineering Co., O'Fallon, Ill.
 Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
 Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
 National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)

GASKETS, Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
 Anchor Packing Co., 401 N. Broad St., Philadelphia 3, Pa.
 Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
 Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
 Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
 Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill. "Superbestos."
 Cleveland Gasket & Mfg. Co., 1610 W. 116th St., Cleveland 2, Ohio.
 Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y. "Primrose," "Consolco."
 Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
 Darcoid Co., 145 Sixth Ave., New York 13, N. Y. "Dominion."
 Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
 Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Wirepak."
 Field Mfg. Co., R. B. P.O. Box 894, Worcester 1, Mass. "Fieldco."
 Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
 Garlock Packing Co., 402 Main St., Palmyra, N. Y.
 Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
 Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
 Greene, Tweed & Co., North Wales, Pa. "Palmetto."
 Johns-Manville, 22 E. 40th St., New York 16, N. Y. "J-M."
 Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia, Pa.
 Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
 Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
 Mitchell & Smith Div., Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich.
 Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
 Vellumold Co., 54 Rockdale St., Worcester 6, Mass. "Velbestos"; "Wirebestos." (Wire woven.)
 Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Asbestoprene," "Victopac," "Victor."
 Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

GASKET COMPOUNDS

Duroyd Gasket & Die Mfg. Co., 1828 Amsterdam Ave., New York, N. Y.
 Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Airtite," "Fidelity."
 Flexrock Co., Packing Div., 26th & Filbert Sts., Philadelphia 4, Pa. "Plastic Gasket."
 Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
 P. O. B. Mfg. Co., 3215 Colerain Ave., Cincinnati, Ohio. "Gasket-Makers."
 Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. "Gasket Goo." (In tubes.)
 Permatex Co., 1720 Ave. Y, Brooklyn 23, N. Y. "Form-A-Gasket."



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in motors, protect bearings from corrosion, and minimize lacquering of pistons and valve stems ... *even under continuous full-throttle operation!*

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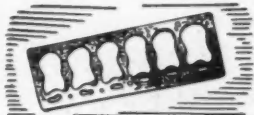
COMMERCIAL CAR JOURNAL, November, 1951

GASKET COMPOUNDS—continued

Puritan Co., 573 Lyell Ave., Rochester 6, N. Y.
 Radiator Specialty Co., 1722 Dowd Rd., Charlotte, N. C. "Tite Seal."
 Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
 Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."

GASKETS, Copper-Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
 Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro Sealmaster."
 Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.



Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
 Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
 Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich. "McKim."
 Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
 Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."

GASKETS, Cork

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
 Advance Felt & Gasket Co., 663 W. Washington Blvd., Chicago, Ill.
 Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
 Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
 Automotive Products Div., Crotty Corp., 39 E. Chicago Ave., Quincy, Mich.
 Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill. "Duracork," "Supercork."
 Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Ill.
 Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
 Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y.
 Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
 Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y.
 Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
 Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro," "Carrocork."
 Field Mfg. Co., R. B. P. O. Box 894, Worcester 1, Mass. "Fieldco."
 Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Fitz-Cork."
 Garlock Packing Co., 402 Main St., Palmyra, N. Y.
 Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
 Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich. "McKim."
 Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
 Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
 Mitchell & Smith Div. Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich.
 Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J. "Jointite."
 Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
 Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa. (Headlamp, oil pan, valve cover and fuel pump bowl.)
 Sutherland Leather & Felt Co., 743 Beaubien St., Detroit 26, Mich.
 Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
 Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
 Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

GASKETS, Fibrous and Paper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
 Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
 Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
 Armstrong Cork Co., Industrial Div., Lancaster, Pa.
 Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
 Automatic Research & Mfg. Co., 88-05 76th Ave., Glendale 27, N. Y.
 Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.
 Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
 Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill. "Super-Pak."
 Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
 Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y. "Wisoid."
 Continental-Diamond Fibre Co., Newark 10, Del. "Diamond."
 Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa. "Gaskoid," "Korkite."
 Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "DeLoid," "Korkoid," "Springold."
 Endura Mfg. Corp., 45 N. Fourth St., Quakertown, Pa.
 Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill. "X-L."
 Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Karropak."
 Field Mfg. Co., R. B., P. O. Box 894, Worcester 1, Mass. "Fieldco."
 Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
 Garlock Packing Co., 402 Main St., Palmyra, N. Y.
 Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
 Houser Engrg. & Mfg. Co., Bluffton, Ind.
 Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y.
 Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
 Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
 Latex Fiber Industries, Inc., Beaver Falls, N. Y.
 Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
 Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
 Merrimac Paper Co., 295 Madison Ave., New York 17, N. Y.
 Mitchell & Smith Div. Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich. "M & S."
 Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
 Prestite Engrg. Co., 3900 Chouteau St., St. Louis 10, Mo.
 Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
 Taylor Fibre Co., Norristown, Pa.
 Vellumoid Co., 54 Rockdale St., Worcester, Mass. "Vellumoid," "Vellutex."
 Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Victorite," "Ferropac."
 Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
 Wilmington Fibre Specialty Co., P. O. Drawer 1023, Wilmington, Del.
 Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

GASOLINE, See Fuels, Engine**GASOLINE FILTERS, See Filters, Gasoline****GATES, Truck (Folding)**

Atlas Fence Co., 3644 Richmond St., Philadelphia 34, Pa.
 Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y.
 Gate Co. of America, Detroit, Mich.
 Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
 Zehr Products Co., 2130 E. Hazzard St., Philadelphia 25, Pa. (Wire.)

GEAR PULLERS, See Pullers, Gear and Wheel**GEARS, Flywheel Ring**

Automotive Gear Works, Inc., Eighth & 8. O Sts., Richmond, Ind. "Double Diamond."
 Lemnco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
 Springfield Mfg. Co., Bechtie Ave. & Columbia St., Springfield, Ohio. "Excelsior."
 Wohler Corp., 708 E. Grand River Ave., Lansing 6, Mich.

GEARS, Landing (Trailer)

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
 Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton 1, Ohio.
 Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
 Holland Hitch Co., 430 W. 18th St., Holland, Mich.
 Homan & Co., Inc., 920-926 State Ave., Cincinnati 4, Ohio.
 Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky. "Kingham-Universal."
 Warren Gear Mfg. Co., Warren, Pa.

GEARS, Steering

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 23, Ind. (Hydraulic.)
 Elgin Machine Works, 412 N. State St., Elgin, Ill.
 Gemmer Mfg. Co., 6400 Mt. Elliott Ave., Detroit 11, Mich. (Manual and hydraulic.)
 Ross Gear & Tool Co., 800 Heath St., Lafayette, Ind.
 Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.

GEARS, Steering (Booster Units)

Air-O-Matic Power Steer Co., 24 Noble Court N.W., Cleveland 13, Ohio. "Apsco."
 Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. (Hydraulic.)
 Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Air.)
 Garrison Mfg. Co., 1506 S. Santa Fe Ave., Los Angeles 21, Calif. (Hydraulic.)
 Gemmer Mfg. Co., 6400 Mt. Elliott Ave., Detroit 11, Mich. (Manual and hydraulic.)
 Ross Gear & Tool Co., 800 Heath St., Lafayette, Ind.
 Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
 Vickers, Inc., 1400 Oakman Blvd., Detroit 32, Mich. (Hydraulic.)

GEARS, Timing (Metallic and Non-Metallic)

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded in steel hubs, semi-finished.)
 Amgears, Inc., Sub. Hupp Corp., 6633 W. 65th St., Chicago 38, Ill.
 Aro Equipment Corp., Cleveland Div., 2040 E. 77 St., Cleveland 3, Ohio.
 Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg-Warner."
 Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
 Cloyen Gear Works, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.
 Continental-Diamond Fibre Co., Newark 10, Del. "Celoron."
 Crofoot Gear Corp., Charles E., 55 Central St., South Easton, Mass.
 D & B Mfg. Co., 2312 S. Indiana Ave., Chicago, Ill.
 Detroit Bevel Gear Co., 8130 Jos. Campus Ave., Detroit 11, Mich.
 Dexter Machine Products Co., 20540 U. S. 12 W., Chelsea, Mich. "Sylvan." (Aluminum-steel, for Chevrolet and Ford cars and trucks, Studebaker cars and GMC trucks.)
 Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
 Elgin Machine Works, 412 N. State St., Elgin, Ill.
 Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
 Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
 General Electric Co., Chemical Dept., Pittsfield, Mass. "Fabrolit," "Textolite." (Non-metallic.)
 Hoof Products Co., 6548 S. Laramie Ave., Chicago 38, Ill. (Metallic.)
 International Parts Corp., 11th & State Sts., Chicago 5, Ill.

75% Longer Service"

— and he also says—

➔ **"This big saving is small compared to another one we get."**

Actual operation records of hundreds of large fleets—and thousands of smaller ones—prove conclusively that the specially engineered Gates TRUCK BELT gives from 50% to 80% longer wear than the user ever got from *any other belt*.

Names of a few representative users of Gates TRUCK BELTS are given on the preceding page. They are located from Coast to Coast and are selected geographically so that there will almost surely be one near you whom you know and can conveniently ask. Any one of them will tell you that Gates TRUCK BELTS are cutting his belt expenditures by *fully one-half!*

That means a very substantial saving in belt costs alone—but there is another saving that is *far greater than this*.

Saving Road Delays Cuts Operating Costs Far More than a 50% Saving in Belt Costs

Every user of GATES TRUCK BELTS mentions particularly the *great reduction* in road delays on units that are equipped with these belts—and there is little wonder that they emphasize this saving.

Delays on the road naturally cause disappointment to your customers who are often waiting anxiously for delivery of important shipments. *Even worse than that*, road delays cut down the precious *net operating time* of your units—and net operating time, is after all, the one thing that pays you a profit.

If you will consult with any of the operators whose names appear on the preceding page, we know you will find their savings from using Gates TRUCK and BUS Belts are so substantial that you will certainly want to have the advantage of these savings for yourself!

Gates Belt Jobbers in Every Distributing Center
Can Supply You Promptly

THE GATES RUBBER COMPANY, DENVER, U.S.A.

Worlds Largest Makers of V-Belts

Look for this **T***

Look for the letter "T" on the belt itself—as well as on the label of every belt you buy for truck service. "T" means that the belt has been specially engineered for TRUCKS and BUSES. You can be sure of getting the belt designed for this more demanding service only by seeing to it that you are delivered belts which bear this letter "T".

*REG. U. S. PAT. OFF.

T-519



*The Mark of
Specialized Research*

GEARS, Timing (Metallic and Non-Metallic)—continued

Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempeo Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
 Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
 Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
 Taylor Fibra Co., Norristown, Pa. (Non-metallic.)
 Timing Gears Corp., 2801 Fulton St., Chicago 12, Ill. "Cy-lent."
 Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif. "Martin Wells."
 Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Micarta." (Non-metallic.)

GEARS, Transmission

Amgears, Inc., Sub. Hupp Corp., 633 W. 65th St., Chicago 38, Ill.
 Aro Equipment Corp., Cleveland Div., 2040 E. 77 St., Cleveland 3, Ohio.
 Automotive Gear Works, Inc., 8th & S. O. Sts., Richmond, Ind. "Double Diamond."
 Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Warner."
 Cotta Transmission Co., 2340 11th St., Rockford, Ill.
 Detroit Bevel Gear Co., 3130 Jos. Campau Ave., Detroit 11, Mich.
 Dittmer Gear & Mfg. Corp., 198 Grand St., Lockport, N. Y.
 Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
 Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.
 International Parts Corp., 11th & State Sts., Chicago 6, Ill.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempeo Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
 Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 10, Ill. "Hy-Power."
 New Process Gear Co., 500 Plum St., Syracuse, N. Y. (Truck and tractor.)
 Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
 Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
 Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

GEARS and PINIONS, Rear Axle

(For complete units—see Differentials)

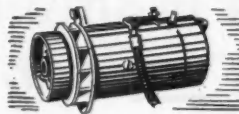
Aro Equipment Corp., Cleveland Div., 2040 E. 77 St., Cleveland 3, Ohio.
 Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Warner."
 Detroit Bevel Gear Co., 3130 Jos. Campau Ave., Detroit 11, Mich.
 Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
 Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempeo Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
 Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
 Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
 Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
 Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.
 Warren Gear Mfg. Co., Warren, Pa.

GEARS, Worm Drive

Amgears, Inc., Sub. Hupp Corp., 633 W. 65th St., Chicago 38, Ill.
 Aro Equipment Corp., Cleveland Drive, 2040 E. 77th St., Cleveland 3, Ohio.
 Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
 Beaver Gear Works, Inc., 1025 Parmele St., Rockford, Ill.
 Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.
 Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
 Cleveland Worm & Gear Co., 3274 E. 80th St., Cleveland 4, Ohio. "C. W. & G. Co."
 Cloyes Gear Works, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.

Crofoot Gear Corp., Charles E., 55 Central St., S. Easton, Mass.
 Eberhardt-Denver Co., 1408 W. Colfax Ave., Denver 4, Colo.
 Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
 L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.
 Meisel Press Mfg. Co., 944 Dorchester Ave., Boston 25, Mass.
 Newark Gear, Inc., 69 Prospect St., Newark 5, N. J.
 Steel Products Engineering Co., 1205 W. Columbia St., Springfield, Ohio.

GENERATORS



American Bosch Corp., 3664 Main St., Springfield 7, Mass. "American Bosch Volt-O-Matic."
 American Generator & Armature Co., 2614 W. 48th St., Chicago 32, Ill.
 Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuilt.)
 Electric Auto-Lite Co., Owen-Dyneto Corp., 1930 Park St., Syracuse, N. Y.
 Delco-Remy, Div. General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
 Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
 Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Elacon."
 General Armature & Mfg. Co., Mill Hall, Pa.
 Lecca-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio. "L-N." (Bus and truck.)

GLASS, Safety

Auto Glass Mfg. Co., 3701 Brinnell Ave., Detroit 13, Mich. "AGM."
 Libbey-Owens-Ford Glass Co., Nicholas Bldg., Toledo 3, Ohio. "HiTest."
 Pittsburgh Plate Glass Co., 2200 Grant Bldg., Pittsburgh 19, Pa. "Duplicate," "Duolite," "Multiplate," "Carrara," "Herculite."
 Protecto Safety Glass Co., 82-08 Cooper Ave., Brooklyn 27, N. Y.
 Safetee Glass Co., 4717 Stenton Ave., Philadelphia 44, Pa.
 Shatterproof Glass Co., 4815 Cabot Ave., Detroit 10, Mich. "Shat-R-Proof."

GOVERNORS, Engine

Auto Control Co., 3901 W. Flagler St., Miami, Fla. (Sole distributors, Charles R. Berry, P. O. Box 651, Coral Gables 34, Fla.)
 Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
 Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
 King-Seely Corp., 315 S. First St., Ann Arbor, Mich. "Handy."
 Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
 Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Combination governor and distributor.)
 Monarch Governor Co., 1332 W. Bethune Ave., Detroit 6, Mich.
 Pierce Governor Co., 1615 Ohio Ave., Anderson, Ind.
 Safety Speed Control Co., 7800 N. E. Fourth Court, Miami, Fla.
 Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also "Zenith Gov-U-Retor" combination carburetor and governor.)

GRAPHITE, Lubricating

American Grease Stick Co., Muskegon, Mich.
 Acheson Colloids Corp., 1925 Washington Ave., Port Huron, Mich. "Glydag," "Oildag," "Dag," "Aquadag," "Castordag."
 Boyle-Midway, Inc., 22 E. 40th St., New York, N. Y. "Kant Rust."
 Dixon Crucible Co., Joseph, Jersey City 3, N. J.
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Hill & Griffith Co., 1262 State St., Cincinnati 4, Ohio.
 Obermayer Co., S., 2558 W. 18th St., Chicago 8, Ill. "Easo."
 Superior Flake Graphite Co., 1531 First National Bank Bldg., Chicago 3, Ill. "Motorflake," "Superflake."

United States Graphite Co., 1621 Holland Ave., Saginaw, Mich. "Mexican."
 Van Cleef Bros., Inc., 7800 S. Woodlawn Ave., Chicago 19, Ill. "Dutch Brand."

GREASE, Chassis, See Oils and Lubricants

GREASE GUNS, HAND, See Lubricators, Hand

GREASE GUNS, PUMPS, CABINETS AND BUCKETS, HIGH PRESSURE, See Lubricators, Portable, High Pressure

GREASE AND OIL ABSORBENTS (Floor), See Absorbents, Oil and Grease (Floor)

GREASE RETAINERS, See Retainers, Oil and Grease

GRILLES, Radiator

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.
 Aluminum Goods Mfg. Co., Manitowoc, Wis.
 Automotive Grille Co., 2111 S. Michigan St., Chicago, Ill.
 Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
 Cutler Metal Products Co., 1029 Line St., Camden, N. J.
 Detroit Grille Mfg. Co., 258 E. Vernor Highway, Detroit 1, Mich.
 Doehler Die-Casting Co., 386 Fourth Ave., New York, N. Y.
 Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
 Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (For White trucks.)
 Globe Stamping Div., Hupp Corp., 1250 W. 76th St., Cleveland 2, Ohio.
 Greene Mfg. Co., 1023 Douglas Ave., Racine, Wis.
 Helms Industrial Development Co., 62-B Keeler Bldg., Grand Rapids, Mich.
 Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
 Motor Products Corp., 11801 Mack Ave., Detroit 14, Mich.
 Saginaw Industries Co., 2119 S. Jefferson Ave., Saginaw, Mich. (For Ford and Chevrolet.)
 Zenite Metal Corp., 201 N. West St., Indianapolis 7, Ind.

GRILLES, Rolling, for Doorways

Kinnear Mfg. Co., 3100-20 Fields Ave., Columbus 16, Ohio.

GRINDERS, Bench

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
 American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
 Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.
 Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
 Besly & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
 Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
 Blount Co., J. G., Woodland St., Everett 43, Mass.
 Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
 Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
 Cummins Portable Tools, Div. Cummins-Chicago Corp., 4740 N. Ravenswood Ave., Chicago 40, Ill.
 Diehl Mfg. Co., Findernie Plant, 1011 Findernie Ave., Somerville, N. J.
 Dumore Co., 14th & Racine Sts., Racine, Wis.
 Evans Reamer & Machine Co., New Lexington, Ohio.
 Hisey-Wolf Machine Co., Div. Cincinnati Electrical Tool Co., Madison St. & Edwards Rd., Cincinnati 8, Ohio.
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Lee Co., K. O., Congress Ave., S. E., Aberdeen, S. D. "Knock-Out."
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Lima Electric Motor Co., Findlay Rd., Lima, Ohio.
 Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
 Luther Grinder & Tool Co., Sheboygan, Wis.
 Marathon Electric Mfg. Corp., Cherry & Randolph Sts., Wausau, Wis. "Marathon M.E."
 Millers Falls Co., Greenfield, Mass.
 Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.



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GRINDERS, Bench—continued



Misener Mfg. Co., 202 Walton St., Syracuse 2, N. Y.
 Richards Co., J. A., 908 N. Pitcher St., Kalamazoo 60F, Mich.
 Schauer Machine Co., 2060 Reading Rd., Cincinnati 2, Ohio.
 Signal Electric Mfg. Co., Menominee, Mich.
 Skilsaw, Inc., 5033 Elston Ave., Chicago, Ill. "SkilGrinder."
 Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
 Standard Electrical Tool Co., Mt. Hope & River Rd., Cincinnati 4, Ohio.
 Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
 Valley Electric Corp., 4221 Forest Park Blvd., St. Louis, Mo.
 Van Dorn Electric Tools, Towson 4, Md.
 Vonnegut Moulder Corp., 1879 Madison Ave., Indianapolis 2, Ind. "Marschke."
 Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
 Wickman Mfg. Co., 15533 Woodrow Wilson Ave., Detroit 3, Mich. "Wickman-Neven." (Carbide.)
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

GRINDERS, Brake Drum

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.

GRINDERS, Brake Lining and Shoe

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
 Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Grinders.)
 Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
 Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Combination brake lining and brake shoe grinding.)
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)

GRINDERS, Crankshaft

Evans Reamer & Machine Co., New Lexington, Ohio.
 Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Portable.)
 Norton Co., 1 New Bond St., Worcester 6, Mass.
 Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Attachment.)
 Van Norman Co., 3640 Main St., Springfield 7, Mass.
 Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Portable.)
 Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Intheblok." (Portable.)

GRINDERS, Cylinder

Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
 Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.

GRINDERS, Drill

Black Diamond Saw & Machine Works, Natick, Mass. (Sole distributors, Edward Blake Co., 437 Cherry St., West Newton 66, Mass.)
 Consolidated Machine Tool Corp., Winton & Blossom Rd., Rochester 10, N. Y. "Sellers."
 Covell Mfg. Co., Graham Ave., Benton Harbor, Mich.
 Gallmeyer & Livingston Co., 346 Straight Ave., Grand Rapids 4, Mich. "Grand Rapids."
 Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.
 La Salle Tool Co., 507 W. Washington St., Chicago 3, Ill. "American."
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis. "Sterling."
 Oliver Instrument Co., 1410 E. Maumee St., Adrian, Mich.
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
 Ten Eyck Industries, Fred F., 758 S. Irolo St., Los Angeles 5, Calif.

GRINDERS, Piston Ring

Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
 Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
 Lehman Machine Co., 3560 Chouteau Ave., St. Louis 3, Mo.

GRINDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
 Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
 Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Hicycle," "Supercycle."
 Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago 7, Ill.
 Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
 Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Moto-Tool."
 Dumore Co., 1300 17th St., Racine, Wis.
 Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill.
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
 Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock-Out."
 Louisville Electric Mfg. Co., 3003 Magazine St., Louisville, Ky. "Pioneer."
 Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
 Millers Falls Co., Greenfield, Mass.
 Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee, Wis.
 Precise Products Co., 1328 Clark St., Racine, Wis.
 Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
 Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilGrinder."
 Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
 Syntroon Co., 495 N. Lexington Ave., Homer City, Pa.
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
 Van Dorn Electric Tools, Towson 4, Md.

GRINDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
 Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
 Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
 Madison-Kipp Corp., 201 Waubesa St., Madison, Wis. "Kip."
 Master Pneumatic Tool Co., 149 Peniman Rd., Orwell, Ohio.
 Onsrud Machine Works, Inc., 3900 Palmer St., Chicago 47, Ill.
 Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.

Schramm, Inc., West Chester, Pa.
 Skilsaw, Inc., 5333 Elston Ave., Chicago 30, Ill.
 Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.

GRINDERS, Valve Seat (Portable Electric)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
 Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Vibro-Centric."
 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
 Precision Electric Tool & Mfg. Co., 383 Shrewsbury St., Worcester 4, Mass.
 S & D Engineering Co., 2540 N. Naomi St., Glendale 1, Calif.
 Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Grinder."
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
 Van Dorn Electric Tool Co., Towson 4, Md.
 Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 20, Conn. "Waterbury Hall."
 Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Feather Touch."

GUARDS, Bumper

Brown-Lipe-Chapin, Div. General Motors Corp., 700 Marcellus St., Syracuse, N. Y.
 Bumper Guard Co., 277 Washington Ave., Memphis, Tenn. "Bump-R-Gard."
 Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
 Chadwick, Inc., 7th St. & Keystone Ave., Darby, Pa.
 Eaton Mfg. Co., Stamping Div., 755 E. 140th St., Cleveland 10, Ohio.
 Erie Mfg. Div., Pressed Steel Car Co., 235 E. 33rd St., Chicago 16, Ill.
 Globe Stamping Div., Hupp Corp., 1250 W. 76th St., Cleveland 2, Ohio.
 Hamlin Metal Products Co., 58 Exchange St., Akron, Ohio.
 Houdaille-Hershey Corp., 800 E. Garfield St., Decatur, Ill.
 Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
 Lansing Stamping Co., So. Pens. Ave., Lansing, Mich.
 Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
 Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
 Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa.

GUARDS, Radiator, Grille and Fender

American Forging & Socket Co., P. O. Box 123, Pontiac, Mich. (Radiator Grille.)
 Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. (Grille.)
 Bumper Guard Mfg. Co., 1093 Chelsea Ave., Memphis 1, Tenn. "Bump-R-Gard."
 Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y. (Truck radiator.)
 Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
 Cello Products Co., 161 Prescott St., East Boston 28, Mass.
 Central Motor Co., 906 Austin Ave., Waco, Tex. "Protector."
 Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Radiator grille.)
 Erie Mfg. Div., Pressed Steel Car Co., 235 E. 33rd St., Chicago 16, Ill.
 Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.
 Globe Stamping Div., Hupp Corp., 1250 W. 76th St., Cleveland 2, Ohio.
 Hamlin Metal Products Co., 58 Exchange St., Akron, Ohio.
 Helms Industrial Development Co., 62-B Keeler Bldg., Grand Rapids, Mich.
 Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
 Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. "Redi-Fit."
 Lincoln Metal Products Corp., 179 South St., Newark, N. J. (Radiator, for Ford cars.)
 Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
 Mullins Mfg. Co., 605 S. Ellsworth St., Salem, Ohio. (Truck and tractor.)
 Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
 Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.



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Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa. (Radiator and trunk.)
Stevens Mfg. Co., 413 E. Pickard St., Mt. Pleasant, Mich.
Turner Equipment Co., 261 Hastings St., Detroit 26, Mich. "Champion." (Grille, for trucks; sole distributors, Trucksteel Co., Union Commerce Bldg., Cleveland 14, Ohio.)
Van Auken, Inc., Birdsboro, Pa.
Volts Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill. "Stur-dee."

GUARDS, Splash

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 2, Tex. (Truck; Sole distributors, Monkey Grip Sales Co., 5370 Harry Hines Blvd., Dallas 2, Tex.)
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Cello Products Co., 161 Prescott St., East Boston 28, Mass.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex. "Guard-A."
Doan Mfg. Corp., 1761 London Rd., Cleveland, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Globe Stamping Div., Hupp Corp., 1250 W. 76th St., Cleveland 12, Ohio.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Tingley-Rublee Rubber Co., 903 Ross St., Rahway, N. J. "C.O.T."

GUARDS, Tire Inflating

Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.
Branick Mfg. Co., Fargo, N. D.
Bustin Iron Works, Inc., 110 E. 113th St., New York 35, N. Y. "Swing-A-Way."
Kirspeil Industries, Inc., Livingston, N. J.

GUIDES, Valve

Allied Motor Parts Co., Fox Theatre Bldg., Detroit 1, Mich.
Aluminum Industries, Inc., 2438 Beckman St., Cincinnati 25, Ohio.
American Auto Parts Co., 919 Bonham Ave., Columbus 3, Ohio.
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Standard Automotive Parts Co., Nims St., Muskegon, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich. (For Ford cars.)

HAMMERS, Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Chambersburg Engineering Co., Derbyshire St., Chambersburg, Pa. "Ceco-Drop."
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Lobdell United Co., P. O. Box 1103, Wilmington 99, Del. "Nazel."
Sohramm, Inc., Virginia & Garfield Aves., West Chester, Pa.

Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

HAMMERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Hamer-Drill Co., Box 158, Planetarium Station, N. Y., N. Y.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor-Nado."
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 3, Wis.
Stanley Electric Tool Div. of Stanley Works, 430 Myrtle St., New Britain, Conn.
Syntrol Co., 495 N. Lexington Ave., Homer City, Pa.

HARDWARE, Bus

Attwood Brass Works, 745 Front St., Grand Rapids, Mich.
Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone."
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "Steelflex."
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Stanchions and grab rails.)
Tompkins, H. S., 82 Dey St., New York 7, N. Y.
Troy Sunshade Co., Troy, Ohio. (Stanchions and grab rails.)

HARDWARE, Truck Body

American Forging & Socket Co., P. O. Box 120, Pontiac, Mich. (Hood locks, etc.)
Attwood Brass Works, Inc., 745 Front St., Grand Rapids, Mich. (Also trailer.)
Attwood Vacuum Machine Co., 2500 N. Main St., Rockford, Ill.
Auld Co., D. L., Fifth Ave. & Fifth St., Columbus, Ohio.
Bassick Co., 437 Howard Ave., Bridgeport 2, Conn.
Binkley Mfg. Co., Warrenton, Mo. (Hinges, brackets, etc.)
Bordner Mfg. Co., E. Albion St., Freeport, Ill. (Refrigerator truck.)
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
Cinch Mfg. Co., 1026 S. Homan St., Chicago 24, Ill.
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Cole Automotive Products Co., 2705 S. Michigan Ave., Chicago 16, Ill. (Window locks for no draft ventilators.)
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill. (Door latches.)
Detroit Harvester Co. Dura Div., 4500 Detroit Ave., Toledo, Ohio.
Douglas & Lomason Co., 5336 Lincoln Ave., Detroit 8, Mich.
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., Everts Ave., Cleveland 4, Ohio.
Electric Auto-Lite Co., Die Casting Div., 1934 Thomas St., Woodstock, Ill. "Alemite."
Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (Bus sashes.)
Ferro Stamping & Mfg. Co., 1367 Franklin St., Detroit, Mich.
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill. (Commercial body.)
Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
Jacob Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Jarvis Div. of Dehler-Jarvis Corp., 1501 Paris Ave., Grand Rapids 2, Mich.
Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio. (Steel rolling doors.)
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio.
Kneuer Tail Board Co., 126 Van Buren St., Newark 5, N. J. (Spaceless tailboard hardware.)
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill.
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.
Miner, Inc., W. H., 209 S. La Salle St., Chicago 4, Ill. (Truck and trailer.)
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill. (Fuel tank fittings.)
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Richlite Mfg. Co., 2326 S. Indiana Ave., Chicago 16, Ill.
Rockford Metal Products Co., 716 Cedar St., Rockford, Ill.

Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces and bolts.)
Soas Mfg. Co., 21777 Hoover Rd., Detroit 13, Mich.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Standard-Thomson Corp., 216 S. Main St., Dayton 2, Ohio. (Also hearse and ambulance.)
Stanley Works (Pressed Metal Div.), 195 Lake St., New Britain, Conn.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich.
Tompkins, H. S., 82 Dey St., New York 7, N. Y.
Transportation Sash Co., 220 Main St., Tipton, Pa. "Transco." (Sash locks.)
Yale & Towne Mfg. Co., 200 Henry St., Stamford, Conn.
Zink Corp., Howard, Fremont, Ohio. "Sure-Fit."

HEADLIGHT FOCUSING INSTRUMENTS, See Testers, Headlight

HEATERS, Engine Pre-Heating

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat." (Gasoline burning.)
Five Star Mfg. Co., 319 De Mers Ave., East Grand Forks, Minn. "Freeman." (Electric.)
General Electric Co., Box 1441, Chicago, Ill. "Calrod."
Kim Hotstart Mfg. Co., 917 W. Broadway, Spokane 11, Wash. (Electric.)
Nemco Electric Co., 210 Second Ave., Seattle 4, Wash. "Hot-Head." (Electric.)
Perfection Stove Co., 7609 Platt Ave., Cleveland 4, Ohio. "Superflex." (Oil burning.)
Petroleum Heat & Power Co., Stamford, Conn. "Petro." (Gasoline burning, for buses and trucks.)
Phillips Mfg. Co., 2816 Aldrich Ave. S., Minneapolis 8, Minn. "Flash." (Electric.)
Synchro-Start Products, Inc., 1046 W. Fullerton Ave., Chicago 14, Ill.
Vapor Heating Co., 80 E. Jackson Blvd., Chicago 4, Ill. (Gasoline burnings.)

HEATERS, Bus

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat."
Burd Piston Ring Co., HaDees Heater Div., 10th St. & 23rd Ave., Rockford, Ill. "HaDees."
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio.
Kysor Heater Co., Haynes St., Cadillac, Mich.
Tropic-Aire, Inc., 4501 W. Augusta Blvd., Chicago 51, Ill.
Truck & Coach Heater Mfg. Co., 11611 Linwood Ave., Detroit 6, Mich.

HEATERS, Cargo

American Gas Machine Co., 505 Front St., Albert Lea, Minn. "Scotman."
Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat."
Auto Body Works, Pierce Ave. & 8th St., Appleton, Wis. "Gatien." (Exhaust.)
Cargo Guard Co., 815 W. 4th St., Davenport, Iowa (Bottle gas.)
Elston Co., Rue R., 2375 University Ave., St. Paul 4, Minn. "Elaston." (LP gas.) (Manufactured by Reinhard Bros. Co., 11 S. 9th St., Minneapolis 2, Minn.)
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Trail-Aire." (Self-powered unit for trailers.)
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Hot water and gasoline.)
Knowles-Fisher Corp., Gowanda, N. Y. (Charcoal burning.)
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. "Stewart-Warner South Wind." (Gasoline burning.)
Truck & Coach Heater Mfg. Co., 11611 Linwood Ave., Detroit 6, Mich. (Hot water.)
U. S. Thermo Control Co., 44 S. 12th St., Minneapolis 4, Minn. "Thermo-King."

HEATERS, Garage (Advertisers Only)

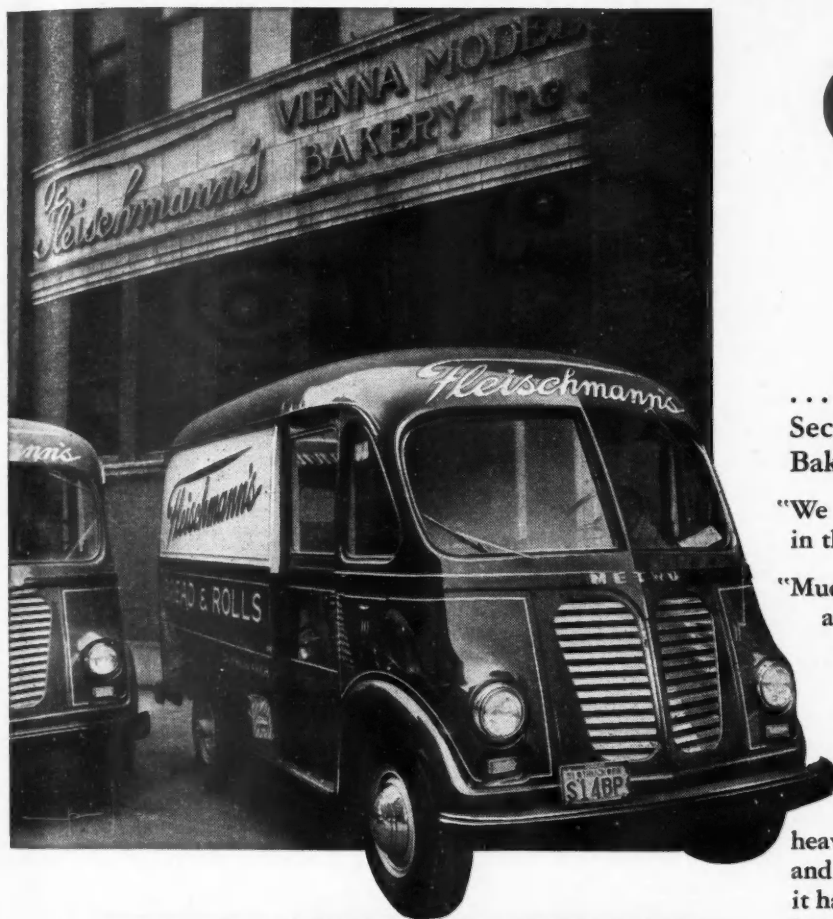
Overhead Heaters, Inc., 1354 Book Bldg., Detroit 26, Mich.

HEATERS, Truck Cab

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat."
Arvin Industries, Inc., 18th St. & Big Four R. R., Columbus, Ind. (Hot water.)
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave. N.E., Cleveland 14, Ohio. (Hot water.)

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HEATERS, Truck Cab—continued



Burd Piston Ring Co., HaDees Heater Div., 10th St. & 23rd Ave., Rockford, Ill. "Ha-dees." (Hot water.)
 Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Hot water.)
 E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. (Hot water.)
 Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio. (Hot water.)
 Evans Products Co., Heating & Ventilating Div., Plymouth, Mich. "Evans." (Hot water.)
 Excel Auto Radiator Co., 320 E. 21st Street, Chicago 16, Ill.
 Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y. (Hot water.)
 Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Hot water.)
 Kysor Heater Co., Hayes St., Cadillac, Mich. (Hot water.)
 Novi Equipment Co., Novi, Mich. (Hot water.)
 Schofield, Inc., E. L., 2230 Seventh Ave., Rockford, Ill. (Hot water.)
 Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. "Stewart-Warner South Wind." (Gasoline burning.)
 Surface Combustion Corp., Janitrol Aircraft-Automotive Div., 400 Dublin Ave., Columbus, Ohio.
 Tropic-Aire, Inc., 4501 W. Augusta Blvd., Chicago 51, Ill. (Hot water.)
 Truck & Coach Heater Mfg. Co., 11611 Linwood Ave., Detroit 6, Mich. (Hot water for truck & bus.)

HILL HOLDER, See Locks, Brake

HILL HOLDERS, See Locks, Brake (Hill Holding)

HITCHES, TRAILER, See Couplers, Trailer

HOISTS, Chain or Cable

(See also Cranes, Portable)

Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
 Chrisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y. "Cyclone," "Blue-Boy."
 Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
 Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn. "Tribloc."
 Harrington Co., 17th & Callowhill Sts., Philadelphia 30, Pa. "Peerless."
 Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass. "Red Line."
 Lincoln Precision Machining Co., North Grafton, Mass.
 Manley Mfg. Div., American Chain & Cable Co., York, Pa.
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 National Screw & Mfg. Co., Chester Hoist Div., Lisbon, Ohio. "Chester."
 Reading Chain & Block Corp., 2140 Adams St., Reading, Pa.
 Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio. "R & M."
 Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.
 Round & Son, David, Box 883, Cleveland 22, Ohio. "Auto-Bloc," "Weston," "Superior," "Little Wizard," "Rocket."
 Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa. "Simplex."
 Union Mfg. Co., 296 Church St., New Britain, Conn.
 Whiting Corp., 157th & Lathrop Sts., Harvey, Ill.
 Wright Hoist Div. of American Chain & Cable Co., York, Pa.
 Yale & Towne Mfg. Co., Philadelphia Div., Roosevelt Blvd., Philadelphia 16, Pa.

HOISTS, Electric

(See also Blocks or Hoists, Chain)

American Engineering Co., 2447 Aramingo Ave., Philadelphia 25, Pa. "Lo-Hed."
 Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y. "Comet," "Meteor."

Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
 Conco Engineering Works, Div. of H. D. Conkey & Co., Mendota, Ill.
 Detroit Hoist & Machine Co., 8282 Morrow St., Detroit 11, Mich. "Detroit," "Titan."
 Electro Lift, Inc., 30 Church St., New York 7, N. Y.
 Flinchbaugh Co., Elbert Lane & P. R. R., York, Pa.
 Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn. "Ford," "Whippet."
 Harnischfeger Corp., 4400 W. National Ave., Milwaukee 14, Wis.
 Harrington Co., 17th & Callowhill Sts., Philadelphia 30, Pa.
 Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass. "Red Line."
 Loudon Machinery Co., 1102 West Ave., Fairfield, Iowa.
 Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich. "Hi-Lift."
 Reading Chain & Block Corp., 2140 Adams St., Reading, Pa.
 Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio. "R & M."
 Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.
 Round & Son, David, Box 883, Cleveland 22, Ohio. "Rocket."
 Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
 Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y. "Sprague," "Shepard Niles."
 Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill.
 Thomas Hoist Co., 20 S. Hoyne Ave., Chicago 12, Ill.
 Whiting Corp., 157th & Lathrop Sts., Harvey, Ill.
 Wright Hoist Div. of American Chain & Cable Co., York, Pa.
 Yale & Towne Mfg. Co., Philadelphia Div., 4630 Tacony St., Philadelphia 24, Pa.

HOISTS, MONORAIL, See Cranes, Monorail

HOISTS, Pneumatic

Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
 Detroit Hoist & Machine Co., 8282 Morrow St., Detroit 11, Mich.
 Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
 Kehawke Mfg. Co., 718 S. Ellis St., Muncie, Ind.
 Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
 Miller Motor Co., 2940 N. Hawthorne Ave., Melrose Park, Ill.
 Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich.

HOISTS, PORTABLE, See Cranes, Portable

HOISTS, Truck Body

Anthony Co., Streator, Ill. (Hydraulic.)
 Burch Corp., Thoman St., Crestline, Ohio.
 Cemo Industries, Inc., First National Bank Bldg., Gallion, Ohio.
 Convento Mfg. Co., Cambridge City, Ind.
 Cook Bros. Equipment Co., 8330 San Fernando Rd., Los Angeles 65, Calif.
 Davey Compressor Co., N. Water & Cook Sts., Kent, Ohio.
 Daybrook Hydraulic Corp., Bowling Green, Ohio.
 Detroit Mechanical Hoist Corp., 3502-12 W. Fort St., Detroit 16, Mich.
 Gallion Allsteel Body Co., 605 S. Market St., Gallion, Ohio. (Hydraulic.)
 Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
 General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass. "Universal."
 Hell Co., 3000 W. Montana St., Milwaukee 1, Wis. (Hydraulic.)
 Hercules Steel Products Co., Box 477, Gallion, Ohio.
 Jungerson Dump Body Co., 3165 N. 30th St., Milwaukee, Wis.
 Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Ill.
 Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hands.)
 Marion Metal Products Co., Cheney Ave., Marion, Ohio. (Hydraulic.)
 National Lift Co., 225 Madison St., Waukesha, Wis. "Dump-O-Matic."
 Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn. Pa.

Perfection Steel Body Co., S. East St., Gallion, Ohio. (Hydraulic.)
 Rodenhause's Excelsior Wagon Works, Ninth & Jefferson Sts., Philadelphia 22, Pa. (For coal trucks.)
 St. Paul Hydraulic Hoist, 2207 University Ave., S.E., Minneapolis 14, Minn.
 Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
 Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. "Aristocrat."
 Unit Mfg. Co., Minneapolis, Minn. (Hydraulic.)

HOISTS, VEHICLE LIFTING, See Lifts, Vehicle

HOLDERS, Electrode

Chicago Tool & Engineering Co., 3383 S. Chicago Ave., Chicago, Ill. "Palmgren."
 Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich.
 Jackson Products, 31739 Mound Rd., Warren, Mich.
 Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland 1, Ohio.
 Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.
 Tweco Products Co., Boston at Mosley St., Wichita 1, Kan. "Tweco," "Twecotang."
 US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.

HOLDERS, LOAD, See Load Binders

HONES, Cylinder

Ammeo Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Engine and brake.)
 Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic and brake drum.)
 Hyland Mfg. Co., 818 John St., Portsmouth, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Keystone Reamer & Tool Co., Millersburg, Pa.
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 Micromatic Hone Corp., 8100 Schoolcraft St., Detroit 4, Mich. "Hydrohones," "Microhones," "Micromatic," "Odee."
 Rottler Boring Bar Co., 1727 First Ave., Seattle 4, Wash.
 Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
 Supeco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y. (Brake.)
 Thermold Co., 200 Whitehead Rd., Trenton 4, N. J.
 Van Norman Co., 3640 Main St., Springfield 7, Mass.
 Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Engine and brake.)
 Wilco Products, Inc., 595 Valley St., Orange, N. J. (Hydraulic brake.)
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)

HONES, Small Bore

(For piston pins, brake cylinders, bushings, etc.)

Ammeo Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
 Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa. (Brake cylinder, piston pin and ring pin bushings.)
 Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Brake cylinder.)
 Eis Automotive Corp., Middletown, Conn. (Brake cylinder.)
 Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio. (Piston pin.)
 Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio. (Brake cylinder.)
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich. (Piston pin.)
 Keystone Reamer & Tool Co., Millersburg, Pa. (Piston pin.)
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Brake cylinder and piston pin.)
 Micromatic Hone Corp., 8100 Schoolcraft St., Detroit 4, Mich. "Hydrohones," "Microhones," "Micromatic."
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Brake cylinder.)
 New Britain Machine Co., South St., New Britain, Conn. (Brake cylinder.)

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HONES, Small Bore—continued

Precision Hone Co., 8618 Dearborn St., Detroit 17, Mich. "Honette." (Piston pin, brake cylinder, bushing, etc.; "Brake-hone," brake cylinder.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Piston pin.)
Staple Engineering Co., 1315 S. Woodward Ave., Birmingham, Mich.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Piston pin.)
Tobin-Arp Mfg. Co., 2845 Harriet Ave., Minneapolis 8, Minn.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Waterbury Tool, Div. of Vickers, Inc., 183 E. Aurora St., Waterbury 20, Conn. (Piston pin.)

HOOKS, Towing

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Four Wheel Drive Auto Co., E., 12th St., Clintonville, Wis. "FWD."
Holland Hitch Co., 430 W. 18th St., Holland, Mich.

HORN RELAYS, See Relays, Horn and Light

HORNS, Air

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Buell Mfg. Co., 919 W. 49th Pl., Chicago 9, Ill.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. "Supertone Twins."
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.

HORNS, Electric

Delco-Remy Div., General Motors Corp., Anderson, Ind. "Klaxon."
De-Ray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y.
Edwards Co., Norwalk, Conn.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb. "Jubilee," "Bugler," "Broadcaster," "Fog-Horn," "Hi-Lo-Tone," "Multi-tone," "Three Star," "Gold Medal," "Bomber," "Challenger," "Rival," "Streamline," "Toot-a-Tune."
Spartan Automotive Div., Sparks-Withington Co., Jackson, Mich. "Marvel."

HORNS, Siren

(For ambulances, police and fire department apparatus)

American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. (Electric.)
Federal Enterprises, Inc., 8765 S. State St., Chicago 19, Ill.
Sireno Co., 214 William St., N. Y. 7, N. Y.
Sterling Siren Fire Alarm Co., 53 Allen St., Rochester, N. Y. (Electric.)



HORNS, Vacuum Operated

E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y.
Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. "Trico Claireon."

HORSES and TRESTLES, See Stands, Adjustable

HOSE, Air Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.

Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y. "Monarch."
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Weatherhead Co., E. 131st St., Cleveland 8, Ohio.

HOSE, Air Brake (Holder)

Vari-Products Company, 2450 S. Prairie Ave., Chicago 16, Ill.

HOSE, Air, Tire Inflating (Rubber and Fabric)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. "Red Air."
Balerank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull Dog."
Chatsworth Mfg. Co., Chatsworth, Ga. "Chamco."
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Enduro," "Vitalic."
Crown Products Co., Ralston, Neb.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 8, Ohio.
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y. "Maltese Cross," "Servall."
Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 18, Ohio. "Holdfast."
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa. "Korker," "Quaker."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Gasoline

(See also TUBING, gasoline & oil lines)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. "Smoothflex." (Synthetic rubber.)
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull Dog."
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalic."
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J. "National." (Synthetic rubber.)
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. "Mulconroy," "New Process."
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa. "Penflex."

Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Resistoflex Corp., 39 Plansoen St., Belleville 9, N. J.
Thermoid Rubber, Div. of Thermoid Co., Whitehead Rd., Trenton, N. J.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Grease (High Pressure)

Adams Grease Gun Corp., 54 W. 21st St., New York, N. Y.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
Balerank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., S. Main St., Akron 18, Ohio.
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Reda-Turner Mfg. Co., 811 Page Blvd., Springfield 4, Mass.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

HOSE, Heater

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex. "Guard-A."
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.

HOSE, Hydraulic Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K."
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube," "Rex-Weld."
Eis Automotive Corp., Middletown, Conn.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Bundyflex."
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio. "Delco."
Motive Equipment Mfrs., Inc., 5253 Roosevelt Rd., Chicago 50, Ill. "Pilot."
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."

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Shell Rotella Oil drastically reduces wear in the vital top-cylinder zone by counteracting the acid action of unburned fuel particles. This protection is extremely important in engines with intermittent loading.

2. Constant DISPERSANT ACTION

The excellent dispersant properties of Shell Rotella Oil permit it to dissolve contaminants and hold them in suspension until draining time. This prevents premature fouling.

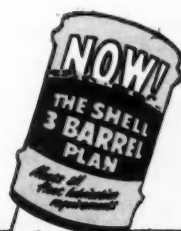
3. Maintained Engine Efficiency

Is the direct result of reduced top-cylinder and ring-face wear. Moreover, new or reconditioned engines operating with Shell Rotella Oil show a welcome extension of the "low oil consumption" period because of this same reduced wear. The above gains, combined with freedom from fouling and a significant increase in valve life, enable you to extend time between engine overhauls.

FLEET OPERATORS!

Shell Rotella Oil is "Barrel One" in Shell's famous Three-Barrel Plan for fleet lubrication

If you want to cut lubricant inventories to the bone . . . to realize savings in time, labor and materials . . . mail this coupon for "The Three-Barrel Plan." It's a practical booklet that shows how this revolutionary lubrication program can cut your maintenance costs.



SHELL OIL COMPANY,
50 West 50th Street, New York 20, N. Y.;
or 100 Bush Street, San Francisco 6, Cal.
Please send me a copy of The Three-Barrel Plan,
along with other available information on Shell
Rotella Oil.

Name _____
Address _____
City _____ State _____

TIME BETWEEN OVERHAULS!

INSTRUMENTS, Electrical Circuit Testing—continued

Electro Products Co., 4456 E. 189th St., New York 58, N. Y. "Trouble Shooter," "Acroset," "Coilmaster."

General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y.

Gould Storage Battery Corp., First National Bank Bldg., St. Paul 1, Minn. "Kath-anode."

Hickok Electric Instrument Co., 10514 Du-pont Ave., Cleveland, Ohio. "Autocheck."

Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distribu-tors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)

Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.

Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.

King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.

Lanagan & Hoke, 431 E. Collum St., Phila-delphia 44, Pa.

McColpin-Christie Corp., 3410 W. 67th St., Los Angeles 43, Cal.

Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."

Martindale Electric Co., 1840 Hird Ave., Cleve-land 7, Ohio.

Mercury Electric Corp., 719 Wyandotte St., Kansas City, Mo.

Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.

Powercraft Corp., 2502 S. Wabash Ave., Chi-cago, Ill. "Powerflo." (Sole distributors, Lesterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)

Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."

Schauer Mfg. Corp., 2060 Reading Rd., Cin-cinnati 2, Ohio.

Scintilla Magneto Div., Bendix Aviation Corp., Sherman Drive, Sidney, N. Y. "Bendix."

Shurhit Products, Inc., Waukegan, Ill.

Snap-On Tools Corp., 8046 28th Ave., Keno-sha, Wis.

Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."

Sun Electric Corp., 6323 Avondale Ave., Chi-cago 31, Ill.

T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.

Triple-A-Specialty Co., 2101 Walnut St., Chi-cago 12, Ill. "Silver Beauty."

Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco."

Weidenhoff, Inc., Joseph, Algona, Iowa. (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.

Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

Wood Co., Frank N., 344 W. Main St., Wau-kesha, Wis. "Trucut." (Armature testers.)

INSTRUMENTS, Engine Testing

Allen Electric & Mfg. Co., Kalamazoo, Mich.

Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.

Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Motor Tester."

Gale Hall Engineering, Inc., 107 Northampton St., Boston 18, Mass. "Test-X."

Kent-Moore Organization, 5-105 General Mo-tors, Detroit, Mich.

Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo.

National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.

Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif. "Spark Pro-tractor." (For spark advance.)

Shurhit Products, Inc., Waukegan, Ill.

Sun Electric Corp., 6323 Avondale Ave., Chi-cago 31, Ill.

Weidenhoff, Inc., Joseph, Algona, Iowa.

Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

INSTRUMENTS, Storage Battery Test-ing

(See also Hydrometers)

Allen Electric & Mfg. Co., Kalamazoo, Mich.

Associated Equipment Corp., 5147 Natural Bridge, St. Louis 15, Mo.

Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo. "Handy."

Bowers Battery & Spark Plug Co., Reading, Pa.

Edison, Inc., Thomas A., West Orange, N. J.

Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa. "Exide."

General Electric Co., Const. Materials Dept., Bridgeport, Conn.

General Scientific Equip. Co., 27th & Hunting-don Sts., Philadelphia 82, Pa.

Gould-National Batteries, Inc., E-1201 First National Bldg., St. Paul 1, Minn. "Kath-anode."

Heyer Products Co., 471 Cortlandt St., Belle-ville, N. J.

Hickok Electrical Instrument Co., 10514 Du-pont Ave., Cleveland, Ohio. "Hickok Chargerator."

Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cam-bridge 42, Mass.)

Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.

King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.

Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo.

McColpin-Christie Corp., 3410 W. 67th St., Los Angeles 43, Calif. "C & C."

Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Minneapolis 14, Minn.

Powercraft Corp., 2502 S. Wabash Ave., Chi-cago, Ill. "Powerflo." (Sole distributors, Lesterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)

Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."

Rex Mfg. Co., 415 Lake Ave., Racine, Wis.

Sun Electric Corp., 6323 Avondale Ave., Chi-cago 31, Ill.

Weidenhoff, Inc., Joseph, Algona, Iowa. (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

Willard Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.

Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

INSULATION, For Electrical Parts (Liquid)

American Rust Proof Co., 8 W. 40th St., New York, N. Y. "Vatu-Lac." (For ignition systems and battery terminals.)

Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.

Borucki, Jr., Ernest F., 162 W. 54th St., New York 19, N. Y.

Dow Corning Co., Midland, Mich. "DC."

Ensign Products Co., 3528 E. 76th St., Cleve-land 5, Ohio.

Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.

General Electric Co., Chemical Dept., Pittsfield, Mass. "G-E."

Ignition-Itte Products Co., 7146 E. Dinwiddie St., Downey, Calif. (For ignition systems; sole distributors, Eagle Distributing Co., 6411 Hollywood Blvd., Los Angeles 28, Calif.)

Insul Products Corp., 4902 Ave. L, Brooklyn 34, N. Y. "Red Insul." (For ignition systems.)

Krylon, Inc., 2601 N. Broad St., Philadelphia 32, Pa. (For ignition wiring, battery ter-minals, etc.)

Radiator Specialty Co., 1700 Dowd St., Char-lotte 1, N. C. "Ignition Seal." (For igni-tion systems.)

U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y. "Pib."

V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif. (Ignition.)

Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa. "Sure-Rite." (For ignition systems.)

Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Electricote." (For ignition systems, etc.)

Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis.

Zip Abrasive Co., 1360 W. 9th St., Cleveland 13, Ohio. "Shortstops." (Ignition system.)

INSULATION, Felt, Hair, Paper, Etc.

American Hair & Felt Co., 1828 Merchandise Mart, Chicago, Ill. (Hair and felt.)

Armstrong Cork Co., Industrial Div., Lan-caster, Pa.

Arvey Corp., 6401 E. Nevada Ave., Detroit 12, Mich. "Nodrum," "Reflex." (Felt.)

Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.

Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.

Burlington Mills Inc., Burlington, Wis. "Bur-Tex." (Plastic coated trunk lining.)

Continental-Diamond Fibre Co., Newark 10, Del. "Vulcold," "Diamond."

Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "DG."

Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y. (Felt and paper.)

Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del.

Gilman Bros. Co., Gilman, Conn. (Flame-proof cotton.)

Glass Fibers, Inc., 1810 Madison Ave., Toledo, Ohio. "Vitron." (Glass wool.)

Great American Industries, Inc., Rubatex Div., Bedford, Va. (Cellular rubber.)

Gustin Bacon Mfg. Co., 1412 W. 12th St., Kansas City 7, Mo. "Ultralite."

Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y. (Rock wool.)

Keystone Roofing Mfg. Co., Franklin St. & P. R. R., York, Pa. "Conewago." (Paper.)

National Automotive Fibres, Inc., 19925 Hoover Ave., Detroit 5, Mich.

National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. "Peerless."

Owens Corning Fiberglass Corp., Dept. 960, Toledo 1, Ohio.

Ruberoid Co., 500 Fifth Ave., New York 18, N. Y. (Felt.)

Silvercote Products Inc., 161 E. Erie St., Chicago 11, Ill. (For refrigerator bodies.)

Spaulding Fibre Co., 310 Wheeler St., Tona-wanda, N. Y. "Spauldo." (Paper, for motors.)

Taylor Fibre Co., Norristown, Pa.

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "U. S. Plotofoam." (Plastic foam.)

Western Felt Works, 4029 Ogden Ave., Chi-cago 23, Ill.

Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington, Del. "Fyberoid."

Wilson & Co., 4100 S. Ashland Ave., Chicago, Ill. "Naturzone." (Sole distributors, Automotive Materials Corp., Fisher Bldg., Detroit, Mich.)

INSULATORS, Spark Plug

Frenchtown Porcelain Co., Muirhead Ave., Trenton, N. J.

IRONS, Soldering (Electric)

American Electrical Heater Co., Woodward, Cass & Burroughs Aves., Detroit 2, Mich. "American Beauty."

Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.

General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y.

Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.

Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

Kwikheat Mfg. Co., 3732 San Fernando Bldg., Glendale 4, Calif.

Lenk Mfg. Co., 30 Cummington St., Boston 15, Mass.

Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Prest-O-Lite."

Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.

Peerless Novelty Co., First & Fulton Sts., Grand Haven, Mich.

Phillips Mfg. Co., 2816 Aldrich Ave. S., Min-neapolis 8, Minn. "Flash," "Phillips."

Snap-On Tools Corp., 8046 28th Ave., Keno-sha, Wis. "Blue Point."

Stanley Tools, 111 Elm St., New Britain, Conn.

Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco."

Vulcan Electric Co., 88 Holten St., Danvers, Mass. "Vulcan," "Mercury."

Wall Mfg. Supply Co., P. O. Box 71, Grove City, Pa. "Harmic."

Wasserleing Mfg. Co., Inc., 7400 3rd Ave., No. St. Petersburg 6, Fla.

Weller Electric Corp., 808 Packer St., Easton, Pa. "Duratip," "Flexitip," "Solderite," "Speed Iron," "Rigid-tip," "Sturditip."

JACKS, Spring

(For use in removing spring shackle bolts and in spring lubricating)

American Hydraulics, Inc., 1822 Wildwood Ave., Sheboygan, Wis.

Blackhawk Mfg. Co., 5325 W. Rogers St., Mil-waukee 1, Wis.

Drum Jack Corp., 3781 E. 77th St., Cleveland 5, Ohio.

Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.

Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."

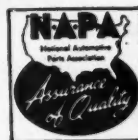
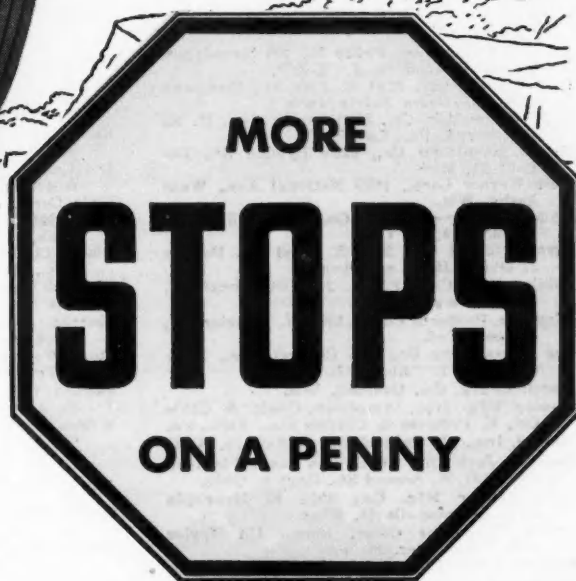


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Performance—that's the basis for selecting brake lining for your vehicles. Is it safe, fully dependable, under all conditions? Does it wear slowly, evenly? Give maximum mileage? Does it keep maintenance costs low?

American Brakeblok does. And leading bus and truck operators from coast to coast have proved it. It's their first choice now and has been for years. Get more stops for *your* penny. Install American Brakeblok next time you reline.



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JACKS, Transmission

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
 Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
 Drum Jack Corp., 3781 E. 77th St., Cleveland 6, Ohio.
 General Automotive Tool and Equipment Co., 139 Orchard St., Grand Ledge, Mich.
 "Hydra-Lift."
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.

JACKS, Vehicle (Hydraulic)

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
 American Hydraulics, Inc., Grit St., Sheboygan, Wis.
 Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich. "Drednaut."
 Bee-Line Co., Box 569, Davenport, Iowa.
 Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Blackhawk," "Lightning Lift."
 Buda Co., 154th St. & Commercial Ave., Harvey, Ill.
 Buehrle & Son, Inc., Philip H., 168 Manalapan Rd., Spotswood, N. J. "E-Z."
 Drum Jack Corp., 3781 E. 77th St., Cleveland 6, Ohio.
 Duff-Norton Mfg. Co., 2709 Preble Ave., N. S., Pittsburgh, Pa. "Lo-Hite."
 Grand Machining Co., 8301 Lyndon St., Detroit 21, Mich.
 Helm-Werner Corp., 1200 National Ave., Waukegan, Wis.
 Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.
 Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio. (Hand and floor.)
 Jubilee Mfg. Co., 1929 S. 20th St., Omaha 7, Neb. (Bumper.)
 Kingston Products Corp., 1400 N. Webster St., Kokomo, Ind.
 Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. "Auto-Lift."
 March Engrg. Co., Oshkosh, Wis.
 Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
 Mansel, Inc., 315 Babcock St., Buffalo 10, N. Y.
 Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.
 Scott-Atwater Mfg. Co., 2901 E. Hennepin Ave., Minneapolis 13, Minn.
 Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.
 Star Jack Co., Elmwood Park, Chicago 35, Ill.
 Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."
 Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. "Simplex." (Truck.)
 Vulcan Mfg. Co., 400 W. Third St., Winona, Minn. "Vulcan Ace-Hy," "Vulcan Imperial," "Vulcan Royal."
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
 Zamax Mfg. Co., W. Broad St., & Maple Ave., Haverstraw, N. Y. "Lift-King," "Pump-A-Jack."

JACKS, Vehicle (Mechanical)

A & B Sales Corp., 39 Long Ave., Hillside 5, N. J. "Master-Mite," "Mity-Mite."
 Affolter Mfg. Co., 1225 5th St., S.W., Canton 11, Ohio. "Blitz."
 Airacapitol Mfrs., Inc., 1613 S. Mead St., Wichita, Kansas. "Vee Jack."
 Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
 Automatic Steel Products, Inc., Spun Steel Div., 1201 Camden Ave., S. W., Canton 6, Ohio. "Spunsteel."
 Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Drednaut," "Auscolift," "Basco."

Barco Machine Products Co., 1975 E. 65th St., Cleveland 30, Ohio.
 Caster Mold & Machine Co., 1171 Wooster Rd., N., Barborton, Ohio.
 "Queen of Jacks." (Scissor type.)
 Chataworth Mfg. Co., Chataworth, Ga. "Chamco."
 Dalton Foundries, Inc., Warsaw, Ind. "Big Boy," "Little Big Boy." (Scissor type.)
 Duff-Norton Mfg. Co., 2709 Preble Ave., N. S., Pittsburgh, Pa.
 Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Oil-Purifier, Inc., 3450 Broadway, Oakland, Calif. "Car-Life."
 Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.
 Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich. (Bumper.)
 Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio. "E-Z Lift."
 So-Lo Jack Co., Attleboro, Mass.
 Stewart Mfg. Co., 3205 E. Washington St., Indianapolis 1, Ind. (Scissor type.)
 Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y. "Kelly Albany."
 Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. (Truck.)
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."
 Woodworth Specialties Corp., 182 Broad Ave., Binghamton, N. Y. "Dependable," "Easy-lift." (Bumper.)

JIGS, Connecting Rod Aligning

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 Olson Co., Thomas C., 609 E. Washington Ave., Madison 3, Wis.
 Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
 Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
 Storm-Vulcan Inc., 2504 Commerce St., Dallas 1, Tex.
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

JIGS, Ring Gear Riveting

Lemeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.

JOINTS, UNIVERSAL, See Universal Joints**KEYS, Valve Stem**

Aluminum Industries, Inc., 2435 Beekman St., Cincinnati 25, Ohio.
 Bailey Products Corp., Union City, Ind.
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog."
 King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
 McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
 Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
 Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
 Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

KING PINS, See Pins, King**KITS, Cylinder Block Repairs**
(Advertisers Only)

K. & W. Products, Inc., 8319 Allport Ave., Whittier, Calif.
 Vernick Mfg. Co., 4700 E. Nevada St., Detroit 34, Mich.

LACQUERS

(See also Enamels)

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
 American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa. "Co-Londul-Ac."
 American Paint Co., 902 L-rabee St., Chicago 10, Ill. (Nitro-celulose.)
 Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio. "Arcozon."
 Atlas Powder Co., Stamford, Conn. "Zapon."
 Automotive Finishes, Inc., P. O. Box 457, Northwestern Station, Detroit 4, Mich.
 Baer Bros., 438 W. 37th St., New York, N. Y.
 Bakelite Corp., 30 E. 42nd St., New York 17, N. Y.
 Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C."
 Berry Bros., Inc., 211 Leib St., Detroit 7, Mich. "Berryloid."
 Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.
 Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite," "Morbblack."
 Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
 Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill. "Daconite."
 Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. "Ditz-Lac."
 Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit 13, Mich.
 du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington, 98, Del. "Duco." (Pyroxylin.)
 Dural Automotive Div., Berry Bros., Inc., 211 Leib St., Detroit 7, Mich.
 Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
 Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. "Nitroloid." (Nitro-cellulose and Ethyl cellulose.)
 Glidden Co., 1100 Madison Ave., Cleveland, Ohio. "Lacq."
 Heath & Mulligan Mfg. Co., 1833 S. Normal Ave., Chicago, Ill. "Dependable."
 Hilo Varnish Corp., 54 Stewart Ave., Brooklyn 6, N. Y.
 Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill. "Illbronze."
 Kay & Ess Co., Leo & Kiser Sts., Dayton, Ohio. "Superloid."
 Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
 Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill. "Hi-Solids." (Nitro-cellulose.)
 Monsanto Chemical Co., Merrimac Div., Everett Station, Boston 49, Mass.
 Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "A. N. L."
 Nikolas & Co., G. J., 1227 Van Buren St., Chicago 7, Ill. "Nik-O-Lac."
 Oxidermo Products, Inc., Springport, Mich.
 Pierce & Stevens, Inc., 710 Ohio St., Buffalo, N. Y. "P & S."
 Pittsburgh Plate Glass Co., Paint Div., 2009 Grant Bldg., Pittsburgh 19, Pa. "Mimax."
 Plasti-Kote, Inc., 425 Lakeside Ave., N.W., Cleveland 13, Ohio.
 Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y. "Vitoloid."
 Rinsed-Mason Co., 5935 Milford St., Detroit 10, Mich. "R-M." (Nitro-cellulose.)
 Sherwin-William Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Opex."
 Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Stand-Lac."
 Steelco Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
 Valentine & Company, Inc., 11 E. 36th St., New York 16, N. Y.
 V.E.P. Co., 440 E. Lafayette Ave., Detroit 24, Mich. "Veco."
 Willey Div.-Sun Chemical Corp., C. A., 100 Sixth Ave., New York 13, N. Y. "Wile-lac."

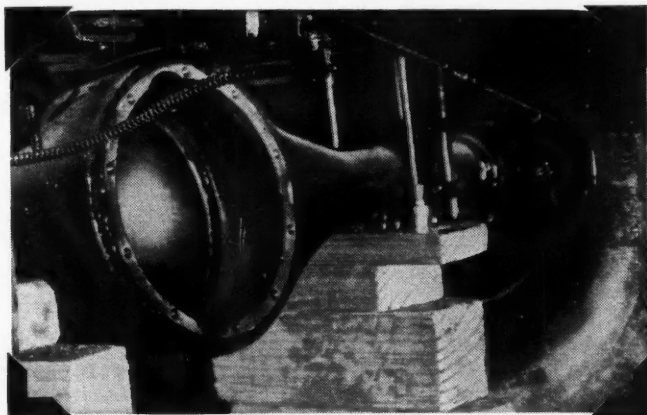
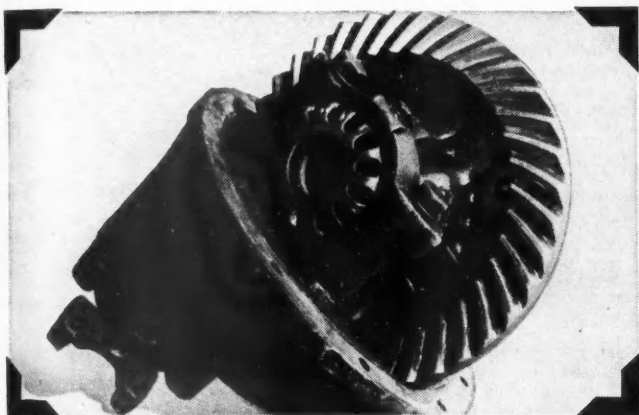
LAMP BULBS, Miniature Incandescent

Carlton Lamp Corp., 528 Elm St., Arlington, N. J.
 General Electric Co., Lamp Dept., Nela Park, Cleveland, Ohio. "G. E."
 Matchless Electric Co., 1423 W. Lake St., Chicago 7, Ill.
 National Carbon Div., Union Carbide & Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Eveready."
 Save Lamp Co., 3637 Ash St., Baltimore 11, Md.
 Sylvania Electric Products, Inc., Lighting Div., 60 Boston St., Salem, Mass.
 Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N. J.

STANDARD ENGINEER'S REPORT

LUBRICANT	DATA <i>RPM Multi-Service Gear Lub.</i>
UNIT	<i>Truck differential</i>
OPERATION	<i>Hauling produce from fields</i>
CONDITIONS	<i>Gradually increasing load - dust, weather temp to 125°F.</i>
FIRM	<i>Jack Bros. & McBurney, Inc., Brawley, Calif.</i>

Gears still good after 100,000 miles in dust and heat!



WORKING IN HEAVY DUST and in atmospheric temperatures up to 125° F., this hypoid gear unit, lubricated with RPM Multi-Service Gear Lubricant, still shows little wear after 100,732 miles of tough work. The truck it came out of hauls produce directly from

soft, dusty fields. Loads up to 8 tons are put on gradually by a conveyor while truck moves down the rows. The differential was drained at about 10,000-mile intervals and had never been torn down before. Entire unit went back into service after checking.



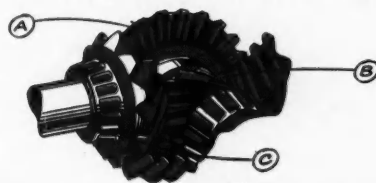
SEVEN TRUCKS LIKE THIS haul beets, lettuce and cantaloupes from Jack Bros. & McBurney fields near Yuma, Arizona, and in the Imperial Valley of California. All the trucks use RPM Multi-Service Gear Lubricant and none of them has ever had any gear trouble, even though operating conditions are always extremely severe and maximum loads are hauled.

REMARKS: RPM Multi-Service Gear Lubricant increases the life of hypoids of all types and also gives extra protection to many other kinds of gears, in both cars and trucks. It comes in several grades to meet all weather and operating conditions.



TRADEMARK "RPM" REG. U.S. PAT. OFF.

How RPM Multi-Service Gear Lubricant prevents wear in severe conditions



- Contains a special compound that reacts chemically with metal to form a protective lubricating coating...resists rubbing action of hypoid gear teeth.
- Withstands extreme temperatures and pressures...highly oxidation resistant. Keeps gears and bearings cool.
- Inhibitors resist rusting, stop foaming in cases. Lubricates integral bearings and other parts. Will not separate.

FOR MORE INFORMATION about this or other petroleum products of any kind, or the name of your nearest distributor handling them, write or call any of the companies listed below.

STANDARD OIL COMPANY OF CALIFORNIA
5 Bush Street • San Francisco 20, California

THE CALIFORNIA COMPANY
P.O. Box 780 • Denver 1, Colorado

STANDARD OIL COMPANY OF TEXAS
P.O. Box 862 • El Paso, Texas

LAMP BULBS, Miniature Incandescent—continued

Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

LAMP LENSES, See Lenses, Lamp**LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop**

Akron Specialty Mfg. Co., 119 Ira Ave., Akron 1, Ohio. (Marker.)
 American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. "King Bee Hy-Power." (Tail, parking and clearance; also "King Bee Regular.")
 Anthes Force Oil Co., Ft. Madison, Iowa. (Tail, parking and clearance.)
 Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. (Back-up.)
 Arrow Safety Device Co., Mt. Holly, N. J. (Tail, dome, parking and clearance.)
 Bolser Corp., S. Main St., Cedar Falls, Iowa. (Clearance and marker.)
 Bowman Automotive Plastics Co., Box 386, Olmstead Falls, Ohio. (Tail.)
 Brown Equipment & Mfg. Co., 1740 Broadway, New York 19, N. Y. "Marko-Lite."
 Cole Automotive Products Co., 2705 S. Michigan Ave., Chicago 16, Ill. "Merit." (Clearance tail and marker for trucks and buses.)
 Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. "Catseye." (Dome, marker, clearance, back-up, etc.)
 Cox Mfg. Co., 111 S. Washington St., Angola, Ind. "Hartline." (Clearance.)
 Delbar Products, Inc., Seventh & Spruce Sts., Perkaspie, Pa. (Tail, parking, clearance and back-up.)
 Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Dome, back-up, tail, parking, running board and clearance.)
 Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Swa-Bak."
 Electric Auto-Lite Co., Lamp Div., Lockland, Ohio. (Cowl, fender, tail and clearance.)
 Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone."
 Electrolite Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
 General Electric Co., Nela Park, Cleveland 12, Ohio.
 Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Clearance, back-up, tail and marker.)
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Tail; back-up; dome; clearance; combination stop, tail and license bracket.)
 Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
 Hall Lamp Co., C. M., 1035 Hancock Ave., E., Detroit, Mich. "Solar."
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
 Knight Co., Geo. C., 19720 W. Eight Mile Road, Detroit 35, Mich. (Courtesy.)
 Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (Clearance, for trucks.)
 Lamp Dept. of General Electric Co., Nela Park, Cleveland 12, Ohio. (Tail, dash and truck.)
 Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "R-J." (Parking.)
 Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 11, Calif. (Back-up.)
 McKee Glass Co., Bullitt Ave., Jeanette, Pa. (Dome.)
 Miro-Flex Co., 1824 E. 2nd St., Wichita 7, Kan. (Clearance and marker.)
 Norlipp Co., 5926 S. Lowe Ave., Chicago 21, Ill. (Clearance and back-up.)
 Piqua Engineering, Inc., 112 E. Ash St., Piqua, Ohio. (Side lamps for hearses and ambulances.)
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass. (Tail and clearance.)
 Rosen & Co., A. W., 1801 First Ave., New York 28, N. Y. "Rosco." (Cowl, fender parking and clearance.)
 S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Cal. (Tail, parking clearance, fender and back-up.)

See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
 Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio. "Torpedo." (Parking.)
 Sparton Automotive Div. of Sparks-Withington, Jackson, Mich. (Armored, clearance, flush-type, back-up, marker, tail, and combination stop and tail.)
 Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Back-up, clearance and marker.)
 Standard-Thompson Corp., 216 S. Main St., Dayton 2, Ohio. (Back-up.)
 Ternstedt Div., General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Dome.)
 Teippe Mfg. Co., 2608 W. 16 St., Chicago 8, Ill.
 U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer." (Back-up.)
 U. S. Tool & Mfg. Co., 1528 Armitage Ave., Chicago 22, Ill. "Eagle Brand." (Clearance and tail.)
 Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. (Back-up.)
 Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Fender, back-up, clearance, dome, parking and tail.)

LAMPS, Drying, Baking and Heating

Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
 Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. "Fostoria Evenray." (Infra-red.)
 Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill. (Infra-red.)
 North American Electric Lamp Co., 1014 Tyler St., St. Louis 6, Mo. "Nalco-Drithern." (Infra-red.)
 Trippe Mfg. Co., 266 W. 16th St., Chicago 8, Ill. (Infra-red.)
 Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

LAMPS, Fog, Head and Spot

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. "King Bee Glasseal." "King-Bee Hy-Power."
 Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass. (Spot.)
 Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill. "Appleton." "Lorraine." (Spot.)
 Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. "Ivalite." (Spot.)
 Arrow Safety Device Co., Mt. Holly, N. J. (Fog.)
 Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill. (Fog.)
 Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka." (Fog and road.)
 Carpenter Mfg. Co., 195 Master Light Bldg., Somerville, Boston 45, Mass. "Master-Lights." Roof-mounted, colored and flashing warning lights. "Roofmaster." Roof-mounted spot.
 Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. (Spot.)
 Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. "Catseye." (Fog and road.)
 Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Fog and spot.)
 Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Nobby."
 Electric Auto-Lite Co., Lamp Div., Lockland, Ohio. "Sealtite." (Fog and road.)
 Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
 Electrolite Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio. (Fog and spot.)
 General Electric Co., Nela Park, Cleveland 12, Ohio.
 Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Fog.)
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Fog.)
 Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
 Lamp Dept. of General Electric Co., Nela Park, Cleveland 12, Ohio. (Fog.)
 Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 11, Calif. "Royal Lumidor." "Supreme Lumidor." (Fog.)
 Norlipp Co., 5926 S. Lowe Ave., Chicago 21, Ill. (Fog.)
 S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
 Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Fog and auxiliary driving.)

Standard-Thompson Corp., 216 S. Main St., Dayton 2, Ohio. "Mobilite." (Spot.)
 Trippe Mfg. Co., 260 W. 16th St., Chicago 8, Ill. "Trippe Safetylight."
 U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer." (Fog.)
 Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. ("Safetylight" Spot; "Unity" fog.)
 Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.
 Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Also combination mirror and spot light.)

LAMPS, HEAD, See Lamps, Fog, Head and Spot**LAMPS, Sealed Beam**

Arrow Safety Device Co., Mt. Holly, N. J.
 Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill.
 Electric Auto-Lite Co., Toledo 1, Ohio.
 Electrolite Mfg. Co., 1975 E. 61 St., Cleveland 3, Ohio.
 General Electric Co., Lamp Dept., Nela Park, Cleveland 12, Ohio.
 Guide Lamp Div., General Motors Corp., 25 St. & Arrow Ave., Anderson, Ind.
 Perfection Automotive Products Corp., 925-33 W. Elizabeth St., Detroit 1, Mich.
 Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
 Trippe Mfg. Co., 260 W. 16 St., Chicago 8, Ill.

LAMPS, Tell-Tale (Rear Signal or Tail Lamp Dash)

Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
 Douglas Mfg. Div. Kingston Products Co., Railroad St., Bronson, Mich.
 Signal-Stat Corp., 523-39 Kent Ave., Brooklyn 11, N. Y.

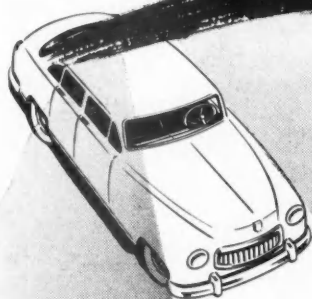
LAMPS, Trouble, Battery Operated

Alden Products Co., 117 N. Main St., Brockton 64, Mass. "Alden Save-ur-Life." (Plugs into cigar lighter socket.)
 BMC Mfg. Corp., 5 Griswold St., Binghamton, N. Y. (Plugs into light socket.)
 Bowman Automotive Plastics Co., Box 338, Olmstead Falls, Ohio.
 Busch & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill. "Safety-Flare." (Plugs into cigar lighter socket.)
 Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
 Douglas Mfg. Div. Kingston Products Co., Railroad St., Bronson, Mich.
 Electrolite Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
 Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind. (Plugs into cigar lighter socket.)
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S." (Also magnetic.)
 Magnetix, Inc., 101 S. Van Brunt St., Englewood, N. J. (Magnetic.)
 Perfection Automotive Products Corp., 725 W. Elizabeth St., Detroit 1, Mich.
 Precision Electric Tool & Mfg. Co., 98 Union St., Worcester, Mass.
 Standard Portable Cord Div., Lincoln Park Industries, 1300 E. 2 St., Jamestown, N. Y. "Car-Lighter."
 Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
 U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. "Big Beam."

LAMPS, Trouble (Electric)

Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill. "Reelite."
 Arrow Safety Device Co., Mt. Holly, N. J.
 Benjamin Reel Products, Inc., 10700 Broadway, Cleveland 25, Ohio.
 Black Mfg. Co., M., 300 N. Third St., Philadelphia 6, Pa. "B-Line."
 Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 78, Mass.
 Crescent Co., Pawtucket, R. I.
 Eagle Electric Mfg. Co., 23-10 Bridge Plaza, S. Long Island City, N. Y.
 General Electric Co., Appl. & Mds. Dept., Bridgeport, Conn. "G-E."
 Glade Mfg. Co., 1632 W. 75th Place, Chicago 20, Ill. "Climax." "Super."
 Hendry Co., C. J., 27 Main St., San Francisco 5, Calif. "Magnalume."

Rewire—for Good



Worn and defective wires are doubly dangerous—They cause operating failures of headlights, horns, and other accessories—They may short-circuit to cause fires. For safety's sake—rewire for good—rewire with Belden.

The complete profit line of lighting wires.

Belden Manufacturing Company
4695 W. Van Buren St., Chicago 44, Ill.



Belden
Automotive **WIRE**

BATTERY CABLES • SPARK PLUG WIRES • LIGHTING WIRES

COMMERCIAL CAR JOURNAL, November, 1951

LAMPS, Trouble (Electric)—continued

K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Kliegl Bros. Universal Electric Stage Lighting Co., 821 W. 50th St., New York, N. Y.
 Magnetix, Inc., 101 S. Van Brunt St., Englewood, N. J. (Magnetic.)
 McGill Mfg. Co., Electrical Div., Valparaiso, Ind.
 Ohio Parts Co., Theresa St. & Chouteau Ave., St. Louis 3, Mo.
 Revere Electric Mfg. Co., 6009 Broadway, Chicago 40, Ill.
 Royal Electric Co., Pawtucket, R. I.
 Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
 Standard Portable Cord Div., Lincoln Park Industries, 1300 E. 2nd St., Jamestown, N. Y. "Magic-Lite."
 Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill.
 U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. "Big Beam."

LANDING GEARS, TRAILER, See Gears, Landing Trailer

LATHES, Bench

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
 Blount Co., J. G., Woodland St., Everett 49, Mass.
 DaAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
 Elgin Tool Works, 67 N. State St., Elgin, Ill.
 Hardinge Bros., Inc., 1418 College Ave., Elmira, N. Y. (Precision.)
 Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Precision.)
 LeBlond Machine Tool Co., R. K., Madison & Edwards Rds., Cincinnati 8, Ohio.
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
 Rivett Lathe & Grinder Inc., 20 Riverview Rd., Brighton, Boston, Mass.
 Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.
 South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.
 Springfield Machine Tool Co., Springfield, Ohio.
 Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Tru-cut." (Piston regrooving & cleaning lathe.)

LATHES, Brake Drum

Barrett Equipment Co., 2101 Cass Ave., St. Louis 8, Mo.
 Dixie Machine Tool Div. of Avey Drilling Machine Co., P. O. Box 625, Cincinnati 1, Ohio.
 Evans Reamer & Machine Co., New Lexington, Ohio.
 Greaves Machine Tool Co., Eastern Ave. & Hazen St., Cincinnati, Ohio.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 5, Calif.
 Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
 Van Norman Co., 3640 Main St., Springfield 7, Mass.
 VanTool, Inc., 139 N. 22nd St., Philadelphia 3, Pa.
 Waddell Equipment Co., 101 South Ave., Garwood, N. J.

LATHES, COMMUTATOR, See Undercutters, Mica

LENSES, Lamp (Glass)

Dearborn Glass Co., 2414 W. 21st St., Chicago, Ill.
 De-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
 Johnson Glass Co., 5248 Elston Ave., Chicago 30, Ill. "Lynx-Eye." (Tail and parking.)
 K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
 Kopp Glass, Inc., Palmer & Carrie Sts., Swissvale, Pa. (Colored.)
 Lancaster Lens Co., 220 W. Main St., Lancaster, Ohio. (Tail, stop, parking, clearance, dome, etc.)
 McKee Glass Co., Bullitt Ave., Jeanette, Pa. "McKeelite," "Spreadlight," "Twolite."

Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y. "Parco."
 Sinclair Glass Co., Main & High Sts., Ceredo, W. Va. (Tail and clearance.)
 Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

LENSES, Lamp (Plastic)

Bowman Automotive Plastics Co., Box 366, Olmstead Falls, Ohio.
 Chicago Molded Products Corp., 1049 N. Kolmar Ave., Chicago 51, Ill.
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
 Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
 Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.

LIFT TRUCKS, See Trucks, Lift

LIFTS, Portable One End

Automotive Steel Products, Inc., 1201 Camden Ave., S.W., Canton 6, Ohio.
 Bay Mfg. Co., 316 Arlington St., Torrance, Calif. (Portable.)
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

LIFTS, Vehicle (Electric)

Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
 Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
 Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn.
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

LIFTS, Transmission (Portable)

Cleveland Pneumatic Tool Co., 3769 E. 77th St., Cleveland 5, Ohio.

LIFTS, Vehicle (Hydraulic)

Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. "Easy." (Also portable.)
 Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
 Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
 Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Air and electrically operated.)
 Hallett Equipment Co., Div. of Construction Products Corp., 410 San Fernando Rd., Los Angeles, Calif.
 Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn. (Air operated.)
 United States Air Compressor Co., 3300 Harvard Ave., Cleveland 5, Ohio.
 Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Twin-Post." (Pneumatic-hydraulic.)
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (Rotary.)

LIFTS, Vehicle (Pneumatic)

Bay Mfg. Co., 316 Arlington St., Torrance, Calif. (Portable.)
 Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
 Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Cal. (Front end.)

LIGHTS, See Lamps

LIGHTS, Timing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I." (Neon light type.)
 Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Neon light type.)
 Araco Mfg. & Sales Corp., 451 Tenth Ave., New York 13, N. Y. (Neon light type.)
 Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Neon light type.)

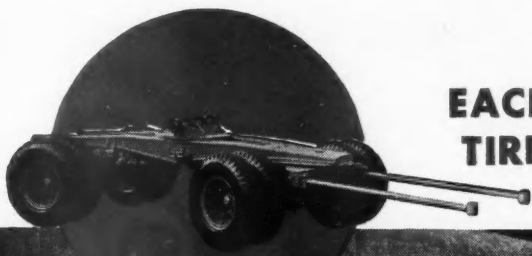
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Neon light type.)
 Niehoff Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Neon light type.)
 Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio. (Neon light type.)
 Snap-On Tools Corp., 8046 28th Ave., Keshewa, Wis. (Neon light type.)
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Neon light type.)
 T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Neon light type.)
 Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
 Tungsten Spark Plug Mfg. Co., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill. (Neon light type.)
 Weidenhoff, Inc., Joseph, Algona, Iowa. (Neon light type; Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

LINING, Brake

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 3, Mich.
 Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa. "Ankorite."
 Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
 Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
 Atlas Asbestos Co., North Wales, Pa. "Atlas," "Giant Atlas," "Old Ironsides," "Quaker," "Bodygard," "Lifeguard," "Master."
 Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
 Colt's Patent Fire Arms Mfg. Co., 17 Van Dyke Ave., Hartford, Conn.
 Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
 Galk Corp., 228 N. La Salle St., Chicago 1, Ill. "Asbestophite," "Besto," "Calk," "Servall," "Duo-Cue," "Dura Blok," "Sity," "Moderate," "Blue Ribbon," "Standard," "Makablok."
 General Metals Powder Co., 130 Elinor Ave., Akron 5, Ohio.
 Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
 Grey Rock Div. of Raybestos-Manhattan, Inc., Mannheim, Pa.
 Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio. "Grizzly," "X-T."
 Hope Webbing Co., Providence 1, R. I.
 Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio. "Inlite."
 Johns-Manville, 22 E. 40th St., New York 14, N. Y. "J-M."
 Lasco Brake Products Corp., 2615 Magnolia St., Oakland, Calif.
 Marshall-Eclipse Div. of Bendix Aviation Corp., Box 538, Troy, N. Y. "Bendix Eclipse."
 Milley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill. "Champion," "Milley," "Miley Black Gold," "Miley Ebonite," "Premier," "Zeebee."
 Molded Materials Div., Carlisle Corp., 6811 Ave., Ridgway, Pa. "Mold-Blok."
 National Brake Block Corp., 79 Madison Ave., New York, N. Y. "National," "Sec-Mold," "Alltex."
 Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
 Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
 Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J. "Rex-Hide," "Rex-88," "Rex-Hy," "Rex-SS," "Rexstar."
 Rosendale Ruboll Co., 30 Euclid Ave., Newark, N. J. "Reddaway."
 Russell Mfg. Co., Middletown, Conn. "Rosco."
 Scandinavia Belting Co., 248 Central Ave., Newark 1, N. J. "Scandinavia," "Hahn."
 Southern Friction Materials Co., Box 1676, Charlotte, N. C.
 Thermoid Co., Whitehead Rd., Trenton 6, N. J.
 Triplewear, Inc., 533 40th St., Union City, N. J.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Wagner CoMax."
 Wellman Co., S. K., 1374 E. 51st St., Cleveland 3, Ohio. "Velvetouch."
 World Bestos Corp., S. 25th St., New Castle Ind.

LINING, Brake (Bimetallic)

Grey-Rock Div. of Raybestos-Manhattan, Inc., Mannheim, Pa.
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
 Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."



**EACH
TIRE 250,000 MILES!**



**... because
HOOBLER UNDERCARRIAGE
helps tires roll farther**



THE tires pictured above have set a record that's hard to believe—250,000 miles each... and no retreads! And the Hoobler Undercarriage mounted on the trailer made that record possible.

The Hoobler-equipped tanker went into service over three years ago. It's a "king-size" job, hauls 6200 gallons of fuel per load—1700 *more* than a conventional tandem. It averages about 16 hours service per day, on runs of approximately 100 miles per trip. And maintenance cost has been practically nil... *and no leakage!*

Here's how the Hoobler Undercarriage increases tire mileage and cuts operating costs, too...

This Undercarriage permits the trailer to follow

through behind the tractor... to ease around the tightest corners or travel straightaways with practically no tire scuffing. Moreover, because flexible, multiple support absorbs practically all road bumps, destructive shocks to tires are cut to a minimum.

Hoobler Undercarriage does even more to improve operations. Its "outrigger" action provides greater stability on curves. There's minimum load shifting—everything from eggs to steel rides safer, easier, faster! And highly important, Hoobler 9-ft. axle spacing generally permits greater payloads.

The Hoobler Undercarriage is simple in design and construction, quickly inspected, easily serviced. It's used on tankers, high-sides, vans or flat tops (28 feet and over). Find out how it can help you make savings mile after mile, day after day. For complete information, write The Union Metal Manufacturing Company, Canton 5, Ohio.

UNION METAL

DESIGNERS AND PRODUCERS OF STEEL PRODUCTS SINCE 1906

Builder of The Hoobler Undercarriage

LINKS, Shock Absorber

Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill. "Amko."
 Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
 Bashian & Sons Co., Henry, 40375 Grand River Ave., Farmington, Mich. "Head Line."
 Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (For Ford cars.)
 Elgin Machine Works, 412 N. State St., Elgin, Ill.
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (For Ford cars.)
 O & S Bearing Co., 303 S. Livermoir Ave., Detroit 17, Mich. (For Ford cars.)
 St. Louis Spring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo. "Moog."
 Van Bergen & Greener Inc., 1619 N. Hayne Ave., Chicago 47, Ill. "Van."
 Wohler Corp., 700 E. Grand River Ave., Lansing 6, Mich.

LINKS, Tire Chain Repair

Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
 Campbell Chain Co., York, Pa.
 Cleveland Chain & Mfg. Co., Penn. R. R. & Henry St., Cleveland 5, Ohio. "Wearwell."
 Flower City Specialty Co., 158 Hollenbeck St., Rochester, N. Y. "Monkey Links," "Pretzel Links."
 Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
 McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
 Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
 Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Wing-Loc."
 Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
 Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
 St. Pierre Chain Corp., Frank St., Worcester, Mass.
 Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y. "Sam-Sons."
 Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind. "Taylor-Made."
 Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
 Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., New York 22, N. Y.

LIST, Parts

M & H Parts Inc., 14066 Euclid Ave., East Cleveland, 12, Ohio. (For Eaton 2-speed axles.)

LOAD BINDERS (For Holding Cargo in Vehicle Body)

Canton Cast Products Co., 2400 13 St., N.E., Canton, Ohio. (Also exclusive distributor for American Forge & Mfg. Co.) (Ratchet type.)
 Canton Malleable Iron, Canton, Ohio.
 Eagle Mfg., Appleton, Wis.
 Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. "Lode-Lok."
 Stacy Mfg. Co., Tiffin, Ohio.

LOADERS, Truck (Elevating Tailgate)

Anthony Co., Streator, Ill.
 Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio.
 Daybrook Hydraulic Corp., Bowling Green, Ohio.
 Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Modern."
 Gar Wood Industries, Inc., Wayne Div., Wayne, Mich.
 Gichner Iron Works, Inc., Fred S., 121 24th St., N.W., Washington 7, D. C.
 Hell Co., 3000 W. Montana St., Milwaukee 1, Wis.
 Hercules Steel Products Corp., Box 477, Galion, Ohio.
 Marion Metal Products Co., Cheney Ave., Marion, Ohio. "Marion Hydrogate."
 National Lift Co., 225 Madison St., Waukesha, Wis. "Lift-O-Matic."
 Perfection Steel Body Co., S. East St., Galion, Ohio.
 St. Paul Hydraulic Hoist Div., Gar Wood Industries, Inc., 2207 University Ave., S.E., Minneapolis 14, Minn. "Frate-Gate."
 Thompson Trailer Corp., P. O. Box 3067, Alexandria, Va.
 Ven Corp., 2828 Newell St., Los Angeles 39, Cal. "Venco."

LOCKS, Brake (Hill Holding)

Automatic Brake Control Co., 1 Flax St., Delaware, Ohio. "ABC." (Automatic hydraulic.)
 Electrol Incorporated, 85 Grand St., Kingston, N. Y. "RolControl."
 General Armature & Mfg. Co., Lock Haven, Pa.
 Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Mico." (Also front brake control.)
 Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. "Hydraulocks."
 Reim Co., Inc., Chas., 547 West 20th St., New York, N. Y.
 Sharp Mfg. Co., 109 W. Columbus St., Nelsonville, Ohio. "Double Check," "Sharp."
 Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "NoRol."
 Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

LOCKS, Ignition

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
 Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
 Eagle Lock Co., S. Main St., Terryville, Conn.
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
 Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
 Hurd Lock & Mfg. Co., Almont, Mich.
 United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia, Pa. "Mitchellock."

LP GAS, See Fuels, Engine**LUBRICANTS, Engine & Chassis, See Oils and Lubricants****LUBRICANTS, Gear, See Oils and Lubricants****LUBRICANTS, Tire**

American Grease Stick Co., Muskegon, Mich.
 "Ru Glyde."
 American Sand-Barium Co., Inc., 9 Rockefeller Plaza, N. Y. 20, N. Y. "Tinalium."
 Bishman Mfg. Co., Osseo, Minn.
 Cohutta Talc Co., Dalton, Ga.
 Doggett, Inc., Stanley, 75 Varick St., New York 13, N. Y.
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Gross Mfg. Co., 1711 California St., Monrovia, Calif.
 National Adhesives Div. of National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.
 Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Miracle."

LUBRICATORS, Hand

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
 Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Bishman Mfg. Co., Osseo, Minn.
 Bowen Products Corp., Auburn, N. Y.
 Coil Mfg. Co., 1001 N. Fares Ave., Evansville 11, Ind. (Universal joint, clutch and shock absorber.)
 De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
 Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J. "Graph-Air." (Graphited.)
 Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
 Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
 Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
 Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
 Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
 Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill. "Imco-Lube."
 K. P. Mfg. Co., 1226 Linden Ave., Minneapolis 1, Minn.
 Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Handi-Lubers," "Kleenseal."
 Monarch Tool & Machinery Co., 3435 S. Racine Ave., Chicago 8, Ill.

Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
 Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.
 Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
 Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
 Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Bennett."

LUBRICATORS, Portable High Pressure (Compressed Air)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
 Aro Equipment Corp., Bryan, Ohio.
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Brown Grease Gun Co., Charlotte, N. C.
 Bud Mfg. Co., R. D. 31, Pulaski, N. Y. "Scharoun."
 Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
 Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
 Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
 Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Autoluber," "Lubriguns," "Powerlubers."
 Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
 Scharoun Co., K. J., Pulaski, N. Y.
 Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
 Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.

LUBRICATORS, Portable High Pressure (Electric)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
 Aro Equipment Corp., Bryan, Ohio.
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill. "Electro-Draulic."
 Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lubriguns."
 Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

LUBRICATORS, Portable High Pressure (Hand Operated)

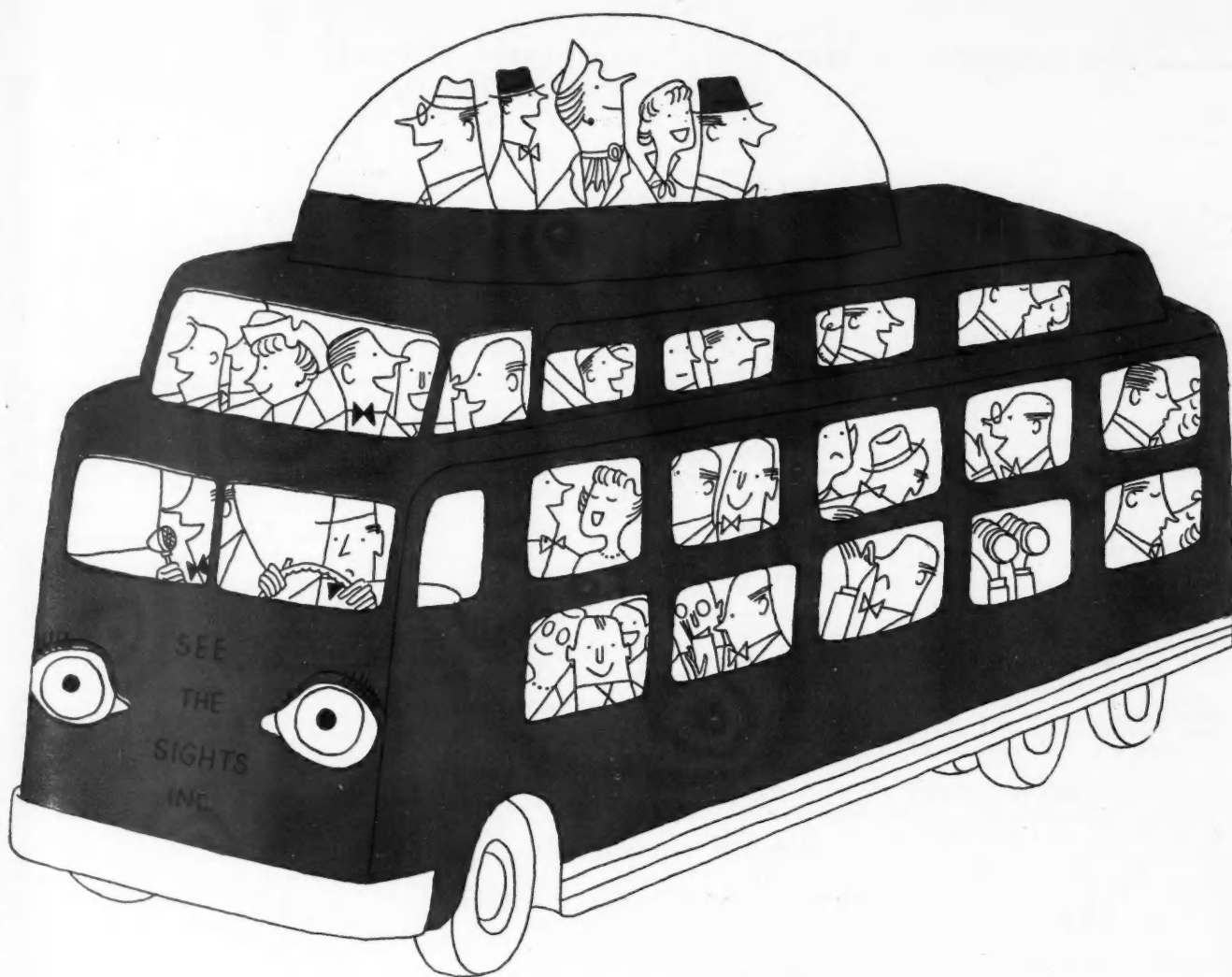
Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
 Aro Equipment Corp., Bryan, Ohio.



Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Jiffy Lubricator Co., 304 Second Ave., Fargo, N. D.
 Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lincoln Portable Pak."
 National Store Specialty Co., Bareville, Pa.
 Phillips Pump & Tank Co., 1432 State Ave., Cincinnati 4, Ohio.
 Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

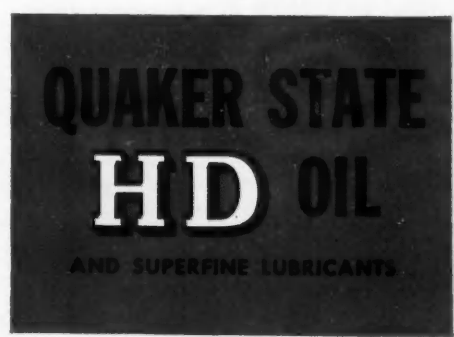
LUBRICATORS, Stationary, High Pressure (Compressed Air)

Aro Equipment Corp., Bryan, Ohio.
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
 Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."



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Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lubriguns," "Masterlubes," "Lubreel."
 Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
 Stewart-Warner Corp., Alemita Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemita."
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

LUBRICATORS, Upper Cylinder

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass. "Ampco."
 Dutton-Lainson Co., Hastings, Neb. "Golden Rod."
 Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Inverse Oiler."
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
 United States Avicorp, 135 Maple St., Niles, Mich. "Avicor."

LUGS, Solderless

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Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

MACHINES, BABBITTING (Main Bearing & Connecting Rod)

Freeport Machine Works, 120 E. Main St., Freeport, Ill.
 Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury-Simplicity." (Connecting rod.)

MACHINES, Banding (For Cracked Cylinders)

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
 Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
 Moguloid Co. of America, 3520 W. Carroll Ave., Chicago 24, Ill. (Arc.)

MACHINES, Boring (Main Bearing, Connecting Rod and Camshaft)

(See also Reamers, Main Bearing and Connecting Rod)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way." (Main bearing.)
 Evans Reamer & Machine Co., New Lexington, Ohio.
 Fulmer Co., C. Allen, 1211 First National Bank Bldg., Cincinnati, Ohio.
 Hub City Iron Co., 219 First Ave., S. W., Aberdeen, S. D.
 Hydro-Borer Co., Div. of Southwest Development Co., 1511 W. Florence Ave., Inglewood, Calif.
 Lempeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Main and camshaft bearing.)
 Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.
 Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex. (Connecting rod bearing.)
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
 Tobin-Arp Mfg. Co., 2845 Harriet Ave., S., Minneapolis 8, Minn.
 Van Norman Co., 2640 Main St., Springfield 7, Mass. (Connecting rod.)
 Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."

MACHINES, Boring (Piston Pin Bushing)

Hydro-Borer Co., Div. of Southwest Development Co., 1511 W. Florence Ave., Inglewood, Calif.
 Tobin-Arp Mfg. Co., 2845 Harriet Ave., S., Minneapolis 8, Minn.
 Van Norman Co., 2640 Main St., Springfield 7, Mass.

MACHINES (Brake Relining)

Barrett Equipment Co., 2101 Cass Ave., St. Louis, Mo.
 Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.) "Chicago," "Buffalo," "Niagara." (Reliners and rivet setters, "Reliance," combination deliner, reliner and grinder, etc.)

Evans Reamer & Machine Co., New Lexington, Ohio.
 Lempeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
 National Rivet & Mfg. Co., Waupun, Wis.
 Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
 Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
 Shepard-Thomason Co., 2320 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Combination brake lining and brake shoe grinding.)
 Star Machine & Tool Co., 201 Sixth St., S. E., Minneapolis 14, Minn.
 Wadell Equipment Co., 101 South Ave., Garwood, N. J. (Also combination riveter and brake shoe grinder.)
 Wilder Co., M. B., 2024 St. Mary's Ave., Omaha 2, Neb. "Morris."
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W." (For Ford cars.)

MACHINES, Clutch Rebuilding

(See also Tools, Clutch Alignment)

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
 Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg-Warner."
 Lempeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Miller Tool & Mfg. Co., 1725 16th St., Detroit, Mich.
 Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
 Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

MACHINES, Front End & Axle Alignment

See Gages, Wheel & Axle Alignment

MACHINES, Piston Turning and Grinding

Bealy & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill. (Grinding.)
 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
 Landis Tool Co., Sixth & Church Sts., Waynesboro, Pa. (Hydraulic grinding.)
 Lempeco Products, Inc., Dunham Rd., Bedford, Ohio.
 Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
 Van Norman Co., 2640 Main St., Springfield 7, Mass.
 Wood Co., Frank N., Wauwatosa, Wis.

MAGNETOS

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
 Fairbanks Morse & Co., Magneto Div., Beloit, Wis.
 Griswold Co., F. T., 305 W. Lancaster Ave., Wayne, Pa. "Vertex."
 Jack & Heintz, Inc., 17600 Broadway, Cleveland 1, Ohio. "Eiseman."
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. "Super Chief."
 Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sidney, N. Y. "Bendix."
 Watts Electric & Mfg. Co., 2222 E. Maple Rd., Birmingham, Mich.
 Waco Electric Co., 42 Phelon Ave., West Springfield, Mass.

MANIFOLDS, Intake and Exhaust

Continental Motors Corp., Muskegon 82, Mich.
 Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit, Mich. "Steelbestos."
 Electric & Carburetor Engrg. Co., 2321 E. Eighth St., Los Angeles 21, Calif. "Tatlerfield." (Intake)
 International Parts Corp., 11th & State Sts., Chicago 5, Ill.
 Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
 Tube Manifold Corp., 1100 Military Rd., Buffalo 17, N. Y.
 Wohler Corp., 700 E. Grand River Ave., Lansing 6, Mich. (For Ford and Chevrolet.)

MASKING, Liquid

Adhere Inc., 1220 Maple Ave., Los Angeles 15, Calif. "Spraymask."
 Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.
 Dennis Chemical Co., 2701 Papin St., St. Louis 8, Mo. "Red-Skin."
 Detrex Corp., Box 501, Detroit 32, Mich. "LPM."
 Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
 du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales Dept., Wilmington 98, Del.
 Hanson-Van Winkle-Munning Co., Matawan, N. J. "Kote-Mask," "Kote-Rax."
 Ken-nite Co., 2336 Hancock Ave., W., Detroit 8, Mich.
 Martin-Senour Co., 2520 Quarry St., Chicago 3, Ill.
 Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Protexit."
 Permo Products Co., 1629 Platte St., Denver 2, Colo. "Permo Mask Eze."
 Servwell Products Co., 6919 Euclid Ave., Cleveland 3, Ohio. "Plask."
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
 Stealcote Mfg. Co., 3418 Gratiot Ave., St. Louis 8, Mo.
 Swavely Chemical & Varnish Works, 831 Page St., Flint 6, Mich. "Smooth Glaze."
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Duramask."

MASKING, Tape

Carborundum Co., Buffalo Ave., Niagara Falls, N. Y. "Flexbac."
 Polyken Dept. of Bauer & Black, Div. of Kendall Co., 2500 S. Dearborn St., Chicago 16, Ill.
 Rehr-Manning Div., Norton Co., Troy, N. Y. "Behr-cat."
 Chicago Show Printing Co., Mystik Adhesive Div., 2635 N. Kildare Ave., Chicago 39, Ill. "Mystik."
 Industrial Tape Corp., New Brunswick, N. J. "Permacel."
 Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn. "Scotch."
 Servwell Products Co., 6919 Euclid Ave., Cleveland 3, Ohio. "Plask."
 Van Cleeff Bros., Inc., 7800 So. Woodlawn Ave., Chicago 19, Ill. "Dutch Brand Mask-O," "Dutch Brand Techni."

MATERIALS, Body Repair (Non-Metallic)

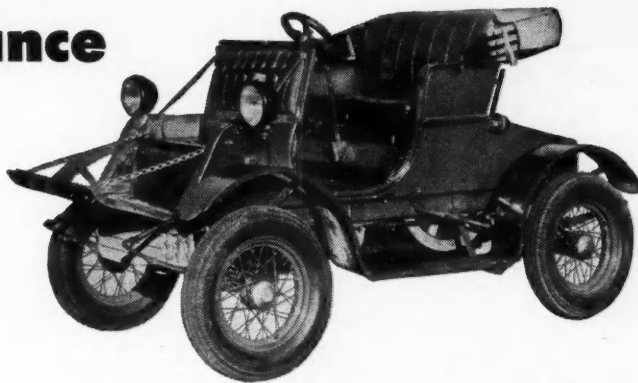
Hollingshead Corp., R. M., Camden 2, N. J. "Met-L-it" (Cold process repair compound and material.)
 Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn.

MATS or MATTING (Rubber)

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Tufftex." (Mats.)
 Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
 Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich. (Mats.)
 Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas, Tex. "Feather Flex." (Mats); (Sole distributors, Monkey Grip Sales Co., 5320 Harry Hines Blvd., Dallas 2, Tex.)
 Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass.
 Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
 Continental Rubber Works, 1946 Liberty St., Erie, Pa. (Matting.)
 Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex. "Guard-A."
 Dayton Rubber Mfg. Co., 2342 W. Riverside Ave., Dayton 1, Ohio.
 Doan Mfg. Corp., 1761 London Road, East Cleveland 12, Ohio. "Armor-Flex."
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco." (Mats.)
 Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
 Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
 Gordon Co., J. P., 232 Neilson St., Columbus 16, Ohio.
 Gross Rubber Co., Carver Bldg., Sharon, Pa.
 Mercer Rubber Co., Hamilton Square, N. J.
 Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio. (Mats.)
 Mitchell Rubber Co., R. I., 2130 San Fernando Rd., Los Angeles 65, Calif. "Stand Easy."
 Moore and Co., Samuel, Mantua, Ohio. "Rub-Rub."
 Niagara Fabric Mfg. Co., 26 Waverly Pl., New York 3, N. Y.
 Ohio Rubber Co., 300 Ben Hur Ave., Willsoughby, Ohio. "Orco."

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are first choice with truck manufacturers)*



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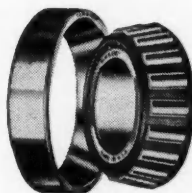
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



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Paine & Williams Co., 4614 Prospect Ave., Cleveland 3, Ohio. "PW." (Mats.)
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn. (Mats.)
 Richardson Co., Lockland, Ohio.
 St. Clair Rubber Co., 440 Jefferson Ave., East, Detroit 26, Mich. "Clair-Carpet." (Sole distributors, Midwest General Corp., 1440 E. Jefferson Ave., Detroit 26, Mich.)
 Schwartz Rubber Corp., R. H., 3708 Payne Ave., Cleveland 14, Ohio. "Fits-All." (Mats.)
 Seiberling Rubber Co., Akron 9, Ohio. (Mats.)
 Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio. (Mats.)
 Stello Products Co., 704 S. Main St., Hutchinson, Kans. "Car-Mat." (Mats.)
 Thermoid Co., Whitehead Rd., Trenton 6, N. J.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Wooster Rubber Co., E. Bowman St., Wooster, Ohio. "Rubbermaid Kar-Rugs." (Mats.)
 Zink Corp., Howard, Fremont, Ohio. "Sure-Fit."

METERS, Air Tower (Automatic)

Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
 Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco." (Automatic.)
 Romort Mfg. Co., Oakfield, Wis. "Romort." "Arno."
 Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
 Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Eco Tireflator." (Combination air & water supply unit also.)

METERS, Brake Performance

Tapley Products Corp., 53 Park Place, New York 7, N. Y.

MICROMETERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
 Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
 Bath & Co., John, 18 Grafton St., Worcester 8, Mass. (Internal.)
 Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
 Central Tool Co., 487 Wellington Ave., Cranston 10, R. I. "Central." "Read-Rite."
 Do All, 254 N. Laurel Ave., Des Plaines, Ill.
 Electro Products Laboratories, 549 W. Randolph St., Chicago, Ill. (Dynamic.)
 Federal-Mogul Service, Detroit 13, Mich. (Crankshaft gage.)



Federal Products Corp., 1144 Eddy St., Providence 1, R. I. (Indicating.)
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Keystone Reamer & Tool Co., Millersburg, Pa.
 Lufkin Rule Co., Hess Ave., Saginaw, Mich.
 Millers Falls Co., Greenfield, Mass.
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn. "P & W Supermicrometer."
 Rimat Machine Tool Co., 1117 Air Way, Glendale 1, Calif. (Inside.)
 Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
 Starrett Co., L. S., 1 Crescent St., Athol, Mass.
 Swedish Gage Co., 8900 Alpine Ave., Detroit, Mich.
 Ten Eyck Industries, Fred F., 758 S. Irolo St., Los Angeles 5, Calif.
 Van Keuren Co., 176 Waltham St., Watertown, Mass. (Light wave.)

MIRRORS, Panel (For Buses)

Acme Specialty Mfg. Co., 2298 Smead Ave., Toledo 6, Ohio.
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Standard Mirror Co., 141 Milton St., Buffalo 10, N. Y.

MIRRORS, Rear View

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee."

Anthes Force Oiler Co., Fort Madison, Iowa. "Anthes Mirror Head."
 Arrow Safety Devices Co., Mt. Holly, N. J.
 Aves Electric Co., 2010 S. Westgate Ave., Los Angeles 25, Calif. "Aeco" (clamp on); "Cobra."
 Bolser Corp., S. Main St., Cedar Falls, Iowa. "Ful-Vue."
 Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
 Doray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
 Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
 Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
 Grote Mfg. Co., Lafayette & Grandview Ave., Bellevue, Ky.
 Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
 K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
 Miro-Flex Co., 1824 E. Second St., Wichita 7, Kansas.
 Mirror Products Co., 13700 Lyndon St., Detroit 27, Mich.
 Mosby Mfg. Co., 13 N.E. Main St., Minneapolis 13, Minn. (Folding.)
 Noblitt-Sparks Industries, Inc., Columbus, Ind.
 Norliff Co., 568 W. Congress St., Chicago, Ill.
 Peters & Russell, Inc., Shuey Bldg., Center & Jefferson Sts., Springfield, Ohio.
 Prutsman, Ted., 1606 E. 88th St., Los Angeles 2, Calif. "Defrosto."
 Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich.
 Whitehead Stamping Co., 1685 W. Lafayette Blvd., Detroit 16, Mich. "Hindview."
 Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

MOLDING, Drip (Metal)

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa." (Aluminum.)
 American Brass Co., 414 Meadow St., Waterbury 20, Conn. "Anaconda." (Brass and nickel-silver.)
 Bailey Co., Water St., Amesbury, Mass. (Aluminum, brass and stainless steel.)
 Binkley Mfg. Co., Warrenton, Mo. (Steel.)
 Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
 Herron-Zimmers Moulding Co., 3900 E. Outer Drive, Detroit, Mich. "HerZim."
 Kawneer Co., 1105 N. Front St., Niles, Mich. (Aluminum, brass, rustless steel and steel.)
 Lees Div. of Serrick Corp., John, Batavia St., Muncie, Ind. (Stainless steel.)
 Motor Products Corp., 11801 Mack Ave., Detroit, Mich. "Detroit Diamond." (Brass and steel.)
 Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich.
 Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio.
 Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.)
 Reynolds Metals Co., Louisville 1, Ky.
 United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.
 Zenite Metal Corp., 201 N. West St., Indianapolis 7, Ind. (Aluminum and steel.)

MOLDING, Finish (Metal)

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.
 Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa." (Aluminum.)
 Aluminum Goods Mfg. Co., Manitowoc, Wis. (Aluminum and stainless steel.)
 American Brass Co., 414 Meadow St., Waterbury 20, Conn. "Anaconda." (Brass.)
 Bailey Co., Water St., Amesbury, Mass. (Aluminum, brass and stainless steel.)
 Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
 Brasco Mfg. Co., Harvey, Ill. (Steel.)
 Dahlstrom Metallic Door Co., Special Products Div., 429 Buffalo St., Jamestown, N. Y.
 Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
 Detroit Moulding Div. of L. A. Young Spring & Wire Corp., 1601 Clay Ave., Detroit, Mich. (Steel.)
 Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
 Globe Stamping, Div. Hupp Corp., 1250 W. 76th St., Cleveland 2, Ohio.
 Greene Mfg. Co., 1028 Douglas Ave., Racine, Wis.
 Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich.

Herron-Zimmers Moulding Co., 3900 E. Outer Drive, Detroit 34, Mich. "HerZim."
 Hurd Lock & Mfg. Co., Almand, Mich.
 Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
 Kawneer Co., 1105 N. Front St., Niles, Mich. (Aluminum, brass, rustless steel and steel.)
 Lees Div. of Serrick Corp., John, Batavia St., Muncie, Ind. (Stainless steel.)
 Merrimac Brass Fdry. Co., 22 High St., Merrimac, Mass. (Lead filled, nickel and chromium plated.)
 Metal Forming Corp., 1937 Sterling Ave., Elkhart, Ind. "Mefco." (Aluminum, brass, steel, stainless steel and nickel alloy.)
 Motor Products Corp., 11801 Mack Ave., Detroit, Mich. "Detroit Diamond." (Steel.)
 Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich.
 Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio. (Steel.)
 Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.)
 Reynolds Metals Co., Louisville 1, Ky.
 Ternstedt Div., General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Brass and steel.)
 United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.
 Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich. (Garnish.)
 Zenite Metal Corp., 201 N. West St., Indianapolis 7, Ind. (Aluminum, brass and steel.)

MOLDS, Tire Recapping and Retreading

Akron Equipment Co., E. Exchange & Annadale St., Akron, Ohio. "Tyrwelder."
 American Tire Machinery, Inc., 724 S. Elliott St., Muncie, Ind.
 Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Calif.
 Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 1, Cal. (Sectional.)
 Center Line Mfg. Co., 503 N. Wichita St., Wichita, Kan.
 Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
 Heints & Co., James C., 3738 W. 14th St., Cleveland, Ohio.
 Lewis Equipment & Supply Co., 2740 Zuni St., Denver 11, Colo. "Tru-Cure."
 Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Cal. "Lodi."

MONORAILS—See Cranes, Monorail**MOTOR OIL, See Oils & Lubricants (Engine & Chassis)****MOTORS, Starting (Electric)**

American Generator & Armature Co., 2614 W. 48th St., Chicago 32, Ill.
 Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuilt.)
 Delco-Remy Div., General Motors Corp., Anderson, Ind.
 Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
 Electric Auto-Lite Co., Owen Dyneto Div., 1930 Park Ave., Syracuse, N. Y.
 Electric Spraykit Co., 14th & Illinois Sts., Shelbyville, Wis. "Elsco."
 Leece-Neville Co., 5109 Hamilton Ave., Cleveland 14, Ohio. "L-N."

MOUNTINGS, Rubber, Insulated

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Steelastic."
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
 Bushings, Inc., 4358 Coolidge Highway, Royal Oak, Mich. "Rubberflex."
 Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Engine, for Ford and Chevrolet cars.)
 Doan Mfg. Corp., 1761 London Road, East Cleveland 12, Ohio. "Armor-Flex."
 Dryden Rubber Div., Sheller Mfg. Corp., 1014 S. Kildare Ave., Chicago 24, Ill.
 Firestone Tire & Rubber Co., 1290 Firestone Parkway, Akron, Ohio.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Engine and radiator.)
 Harris Products Co., 1929 E. 61st St., Cleveland 3, Ohio. "Duflex."
 Hewitt Rubber Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
 Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.

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"It's safety I want
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Put yourself in the position of each of the men who drive your trucks, and you, too, will agree each truck should have a SAFE jack . . . A new Hein-Werner Hydraulic Jack.

You can't beat a sturdy Hein-Werner for safe, dependable operation. It lifts maximum loads smoothly and easily . . . Factory-tested at 1½ times rated capacity . . . Jack cannot lower accidentally as handle must be removed from pump to open release valve . . .

Other features include center-balanced malleable handle socket, and famous "Heinite" pump piston — proven by actual tests to withstand 10 times the wear of conventional cups or packings.

Made in models of 1½, 3, 5, 8, 12, 20, 30, 50 and 100 tons capacity — Bumper-Lift Jacks for passenger cars, Swift-Lift and Service Jacks for shop use, and Hein-Werner "Push and Pull" Hydraulic Jacks for body, fender and frame work.

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COMMERCIAL CAR JOURNAL, November, 1951



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MOUNTINGS, Rubber Insulated—cont.

Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Shear type.)
 M B Mfg. Co., 1060 State St., New Haven 11, Conn. "Isomode."
 Ohio Rubber Co., 300 Ben Hur Ave., Wiloughby, Ohio. "Orco."
 Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
 Roberts Toledo Rubber Co., Prospect & MC R.R., Toledo 6, Ohio.
 Rodie Rubber Corp., Allen Ave., New Brunswick, N. J.
 Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
 Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Engine.)
 Wohler Corp., 700 E. Grand Ave., Lansing 6, Mich.

MUFFLERS, Exhaust



AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. (For autos, buses, trucks and tractors.)
 Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa. "ATL."
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
 Arvin Industries, Inc., 13th St. & Big Four R.R., Columbus, Ind.
 Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
 Caulkins Mufflers, P. O. Box 724, New London, Conn.
 Defiance Mfg. Co., Defiance, Ohio.
 De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis. "Soundmaster."
 Donaldson Co., Inc., 666 Pelham Blvd., St. Paul 4, Minn. (Truck.)
 Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.
 Goerlich's, 619 Smith St., Toledo 1, Ohio.
 Haviland Co., Arnold, Defiance, Ohio. "O. K."
 Hayes Industries, Inc., Wildwood and Fern Aves., Jackson, Mich.
 Hill Mfg. Co., C. L., 210 South Ave., E., Cranford, N. J. (Vacuum, for autos, trucks and tractors.)
 International Parts Corp., 11th & State Sts., Chicago 5, Ill.
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hy-Power."
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
 MacKenzie Muffler Co., N. Meridian Rd., Youngstown 9, Ohio.
 Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill. (Auto, truck and bus.)
 Nelson Muffler Corp., Stoughton, Wis. (For buses and trucks.)
 Oldberg Mfg. Co., 620 N. Seventh St., Grand Haven, Mich.
 Powel Muffler Co., 315 Oriskany St. E., Utica 2, N. Y.
 Pratt Industries, Inc., Frankfort, N. Y.
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Exhaust Silencers." (Individually tuned.)

NOZZLES, Air

(See also Chucks, Air, Tire Inflating)

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
 Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
 Amasco, Inc., 145 S. Monterey Ave., Villa Park, Ill.
 Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
 Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
 Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
 Clements Mfg. Co., 6650 S. Narragansett Ave., Chicago, Ill. "Clements-Cadillac."
 Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
 Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
 Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Cal. "Tru-Flate."
 Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."

Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
 Electric Spray Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
 Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
 Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
 Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
 Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 16, Ohio. "Tri-Con."
 Lonn Mfg. Co., 131 E. New York St., Indianapolis 6, Ind.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.
 Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
 Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
 Purfex Mfg. Co., Box 118, Collegeville, Pa.
 Romort Mfg. Co., Oakfield, Wis.
 Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
 Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
 Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
 Superior Pneumatic, Div. of Tools, 4758 Warner Rd., Cleveland 25, Ohio. "Bully."
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
 Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pittsburgh, Pa.

NOZZLES, Fuel

(See also Pumps, Gasoline)

Buckeye Iron & Brass Works, Dept. C, Box 883, Dayton 1, Ohio. "Buckeye Safety-Fill Nozzle."

NOZZLES, PAINT SPRAY—See Sprayers, Paint, Varnish and Lacquer

NUTS, Lock and Self-Locking

Automatic Nut Corp., Lebanon, Pa. "Anco."
 Blaisdell Mfg. Co., 1350 Coronado Ave., Long Beach 4, Calif.
 Boots Aircraft Nut Corp., 50 John St., Stamford, Conn. "Trilok." "Plate-Lok." "Hex-Lok." (Self-locking.)
 Boss Bolt & Nut Co., 3403 W. 47th St., Chicago 32, Ill.
 Canady-Wiley Mfg. Co., Inc., 1517 S. Evergreen, Los Angeles 23, Calif.
 Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. "Champlac."
 Delron Co., 2306 E. 38th St., Los Angeles 58, Calif. "Delron." "Dura-Loc." (Self-locking.)
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Eaton Mfg. Co. (Riance Spring Washer Div.), Massillon, Ohio.
 Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N. J. "Esna." (Self-locking.)
 Garrett Co., George K. D & Tloga Sts., Philadelphia 34, Pa. "Diamond G."
 Grip Nut Co., 310 S. Michigan Ave., Chicago 4, Ill. "Gripco."
 Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill. "Hillco."
 Laminated Shim Co., 6205 Union St., Glenbrook, Conn. "An-Cor-Loc."
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
 Lock Thread Corp., 2833 E. Grand Blvd., Detroit 11, Mich. (Licensees.)
 National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio. "Drake." "Dynamic." "Marsden." "Huglock."
 Palmot Co., 54 Cordier St., Irvington 11, N. J. (Combination lock washer and nut.)
 Prestole Corp., 1351 Miami St., Toledo 5, Ohio.
 Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y. "Marsden." "Tri-Slot." (Licensees.)
 SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa. (Lock.)
 Security Locknut Corp., 1500 North Ave., Melrose Park, Ill.
 Simmons Fastener Corp., N. Broadway, Albany, N. Y.
 South Chester Corp., 1418 S. Penn Square, Philadelphia 2, Pa.
 Standard Locknut & Lockwasher Co., 809 N. Capitol Ave., Indianapolis 4, Ind. (For ball and roller bearings.)
 Standard Pressed Steel Co., Jenkintown, Pa. "Flexloc." (Self-locking.)
 Stover Lock Nut & Machinery Corp., Bushkill Drive, Easton, Pa.
 Thompson-Bremer & Co., 1640 W. Hubbard St., Chicago 22, Ill.
 Tinnerman Products, Inc., 2038 Fulton Rd., Cleveland 13, Ohio. "Speed Nuts." (Self-locking.)

United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
 Whittet-Higgins Co., P. O. Box 1613, Providence, R. I. (Lock, for ball and roller bearings.)

ODOMETERS

(See also Speedometer)

Barbour Stockwell Co., 205 Broadway, Cambridge 39, Mass. (Hub.)
 Knopf Instrument Co., 250 Culver Ave., Jersey City 5, N. J. "PeKa."
 Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
 United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "Ustecograph."
 Veeder-Root Inc., 20 Sargeant St., Hartford 2, Conn.

OIL ANALYSIS KITS

Gerin Corp., P. O. Drawer 653, Red Bank, N. J.
 Wicks Accessories Corp., Gastonia, N. C.

OILS AND LUBRICANTS (Engine and Chassis)

Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
 Cities Service Oil Co., 60 Wall Tower, New York, N. Y.
 Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.
 Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
 Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
 Freedom-Valvoline Oil Co., Freedom, Pa.
 Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa. (Also motor flush.)
 Kendall Refining Co., 77 N. Kendall St., Bradford, Pa.
 Lion Oil Co., El Dorado, Ark.
 Mac Millan Petroleum Corp., 530 W. 6th St., Los Angeles 13, Calif.
 Mid-Continent Petroleum Corp., P. O. Box 381 Tulsa 2, Okla.
 Ohio Oil Co., Findlay, Ohio.
 Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio.
 Pennzoil Co., Oil City, Pa.
 Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.
 Quaker State Oil Refining Co., Oil City, Pa.
 Shell Oil Co., 100 Bush St., San Francisco 4, Calif.
 Shell Oil Co., 50 W. 50th St., New York, N. Y.
 Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
 Socony-Vacuum Oil Co., 26 Broadway, New York, N. Y.
 Sonneborn Sons, L., 300 Fourth Ave., Amale Div., New York.
 Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.
 Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago, Ill.
 Sun Oil Co., 1608 Walnut St., Philadelphia, Pa.
 Texas Co., 135 E. 42nd St., New York, N. Y.
 Tide Water Associated Oil Co., 17 Battery Place, New York 4, N. Y.
 Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa.
 Wolf's Head Oil Refining Co., Oil City, Pa.

OIL CANS, See Cans, Oiling

OIL CHANGER, See Drainers, Crankcase Oil

OIL DRAINERS, See Drainers, Crankcase Oil

OIL FILTERS, See Filters, Oil

OIL GAGES, See Gages, Oil Pressure

OIL AND GREASE ABSORBENTS (Floor), See Absorbents, Oil & Grease (Floor)

OIL RECLAIMERS, See Reclaimers, Crankcase Oil

OIL RETAINING RINGS & SEALS, See Retainers, Oil & Grease

OIL TANKS, See Tanks and Systems, Gasoline and Oil Storage; also Tanks, Oil (Portable)

OIL TESTING INSTRUMENTS, See Viscosimeters

OILERS, UPPER CYLINDERS, See Lubricators, Upper Cylinders

OILS, PENETRATING, See Rust Preventives

OILS, Upper Cylinder

A P Parts Corp., A P Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. "Miracle Power," "dgt 123."



"BEAR" 330 HEAVY-DUTY DY-NAMIC WHEEL BALANCER checks Static and Dy-Namic un-balance in one operation. Quickly and accurately shows the position and amount of un-balance.

"BEAR" 240 DRIVE-OVER WHEEL ALINEMENT TESTER correctly tests for alinement while the car is being driven over it.

no matter what size your operations . . .

...2 Periodic "BEAR" Tests will CUT Your Operating and Maintenance COSTS!

EQUIPMENT FOR EVERY SIZE SHOP!

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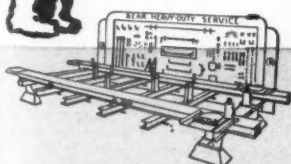


Whether you have three vehicles, a hundred, or more—periodic "Bear" Wheel Balancing and Alinement Tests will enable you to save real money on operating and maintenance costs! With proper Dy-Namic Wheel Balancing and Alinement, you can cut tire wear by 50% or more! You can cut costly front-end parts replacement, minimize driver fatigue, increase safety, reduce load breakage caused by excessive vibration and cut costly out-of-service layups! You can do all this whether you service your

own equipment or not. If you own ten or more vehicles, you may find it economical to do your own testing. If your operations are larger, you may find it more economical to do both test and correction work in your own shop. But . . . no matter what size your operation . . . your "Bear" Jobber or Representative will be glad to help you work out the methods best suited to your particular needs. See your Bear Jobber TODAY or write: BEAR MFG. CO., Dept. C-3, Rock Island, Illinois.

"BEAR" SAFETY SERVICE

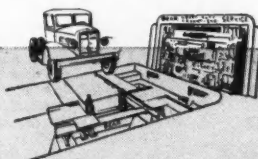
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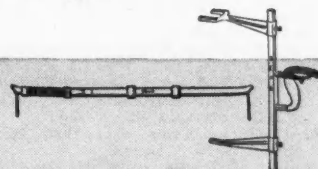
COMPLETE ALINEMENT & FRAME STRAIGHTENING SERVICE is available for large fleet operators with equipment like the "Bear" 900-830 Service. This extra rugged heavy-duty service handles all alinement and frame operations on cars, trucks, buses and tractors.



FLEET OPERATORS CAN INCREASE NIGHT DRIVING SAFETY by checking the headlights on all equipment with the "Bear" 560 Headlight Tester. This modern tester tests lateral aim, beam elevation and light output volume. Operation is simple and quick.



FOR SHOPS WITH LIMITED SPACE a "Bear" Front-End Alinement Service like the 3840-830 is often the ideal solution. In a space 14½' wide by 10½' long, you can do complete inspection and correction work on front axles, rear housings and wheel alinement.



LOW COST PRECISION GAUGES like the "Bear" Caster-Camber-King Pin Gauge and the "Bear" Center Line Toe-In Gauge enable smaller operators to do fast, accurate checking of wheel alinement. "Bear" now offers a variety of precision gauges to meet every service need.

OILS, Upper Cylinder—continued

Acheson Colloids Corp., 1925 Washington Ave., Port Huron, Mich. "Dag," "Oildag."
 Alox Corp., 70 Pine St., New York 5, N. Y.
 Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
 Bardahl Mfg. Corp., 1516 W. 51st St., Seattle 7, Wash.
 Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
 Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. "Bowes Valv-Aid."
 Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y.
 Casite Div. Hastings Mfg. Co., Hastings, Mich.
 Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
 Celco Corp., 110 E. 42nd St., New York 17, N. Y.
 Christy Chemical Corp., 21 Putnam St., Worcester 4, Mass.
 Curran Corp., S. Canal St., Lawrence, Mass. "Motor Fizik," "Gunk Dunk."
 Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
 Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Dyna-Vita."
 Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
 Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
 Friction Proof Oil Corp., 200 Fifth Ave., New York 10, N. Y. "Power Ball."
 Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
 Grafo Colloids Corp., Grafo Bldg., 310 Wilkes Place, Sharon, Pa. "Grafolene."
 Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Motor Rhythm."
 Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "S.M.L.," "MFC."
 International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
 Kano Laboratories, 1000 S. Thompson Lane, Nashville, Tenn. "Kano Kreen."
 Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis.
 Lubri-Gas International, Inc., 221 N. La Salle St., Chicago 1, Ill.
 Mergraf Oil Products Co., P. O. Box 95, Northville, Mich. "Topper."
 National Refining Co., 500 Hanna Bldg., 14th & Euclid Ave., Cleveland 15, Ohio. "Enarco Tune."
 Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio.
 Permatex Co., 1720 Ave. Y, Brooklyn 35, N. Y. "Permatex Toon-Oyl."
 Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo."
 Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa.
 Pyroil Co., 122 Main St., La Crosse, Wis.
 Radiator Specialty Co., 1700 Dowd St., Charlotte 1, N. C. "3-in-1 Nu-Power."
 Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Motor-Kleen."
 Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Motor Magic."
 Rust Master Chemical Corp., 50 Creighton St., Boston, Mass. "Six Master."
 Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Noxo."
 Shaler Co., Waupun, Wis. "Karbout," "Ris-lone."
 Shell Oil Co., 50 W. 50th St., New York 20, N. Y. "Donax," "Shell."
 Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Upperlube."
 Sonneborn Sons, Inc., L., Amalie Div., 300 Fourth Ave., New York 10, N. Y. "Gas-Lube."
 Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill. "Stano-Vim."
 Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Stanley's Motor Pep."
 Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Cranksol."
 U. S. Chemical & Supply Co., 1424 McGee St., Kansas City, Mo. "Z-4."
 United States Aviox Co., 1350 Maple St., Niles, Mich. "Aviox."
 Universal Chemists, 107 Northampton St., Boston, Mass. "Pow'r-Lux."
 V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.
 W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-Oil."
 Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa.
 Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y. "Warco K.O.Carb," "Warco Mo-Tun-Up."

Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Carbon-Ex," "Friction Eez."
 Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa. "Waverly UVX-4."
 White & Bagley Co., 100 Foster St., Worcester, Mass. "Oilsum Vitalube."
 Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
 Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio. "Jack."

OPENERS, Bus Door

Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
 Consolidated Car Heating Co., 413 N. Pearl St., Albany, N. Y. (Pneumatic, electric and hydraulic.)
 Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio. (Manual.)
 Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. (Air electro-pneumatic and vacuum.)
 National Pneumatic Co., Graybar Bldg., New York, N. Y.

**OVENs, Bonding (Brake Lining)**

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
 Barrett Equipment Co., 2101 Cass ave., St. Louis 6, Mo.
 Dura-Bond, Inc., 1855 N. Main St., Ann Arbor, Mich. "Brake-Bond," "Dura-Bond."
 Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. "Evenray," "Durabake."
 Gatke Corp., 228 N. LaSalle St., Chicago, Ill.
 Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
 Grigg Specialty Tools, 7523 Santa Fe ave., Huntington Park, Calif. "Grigg Bond-master."
 Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio. "Saftibond."
 Heintz & Co., James C., 3738 W. 143 St., Cleveland, Ohio.
 Huppert Co., K. H., 6830 Cottage Grove Ave., Chicago 37, Ill.
 Lapeer Mfg. Co., 3056 Davidson Rd., Lapeer, Mich. "Knu-Bonder."
 Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
 Permafuse Corp., 12 Commercial Ave., Garden City, N. Y.

PAINT DRYING LAMPS, See Lamps, Drying, Baking & Heating

PAINT MASKING, See Masking, Liquid and Tape

PAINT SPRAY BOOTHS, See Booths, Spraying (Paint and Varnish)

PAINT SPRAYERS, See Sprayers, Paint

PAINT REMOVERS, See Removers, Paint, Enamel and Varnish

PAINTS

(See Enamels; also Lacquer)

PAINTS, Acid-Resisting

Ace Laboratories, 1614 Cartaret St., Lakewood, Ohio. "Kem-Ban."
 Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frost's Kapak."
 Hack Paint & Chemical Works, Inc., Box 190, Phoenixville, Pa. "Metalock."
 Lithgow Co., Inc., James, Los Angeles 22, Cal. (Plastic coating.)
 Perolin Co., 10 E. 40th St., New York 16, N. Y. "Durabel."
 Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
 Quigley Co., 527 Fifth Ave., New York 17, N. Y. "Triple-A."
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
 Stonehard Co., 1306 Spring Garden St., Philadelphia 23, Pa.
 Vita-Var Corp., 46 Albert Ave., Newark, N. J.

PAINTS, Alkali Resisting

Ace Laboratories, 1614 Cartaret St., Lakewood, Ohio. "Kem-Ban."

Lithgow Co., Inc., James, Los Angeles 22, Cal. (Plastic coating.)
 Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
 Quigley Co., 527 Fifth Ave., New York 17, N. Y. "Triple-A."
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
 Vita-Var Corp., 46 Albert Ave., Newark, N. J.

PAINTS, Aluminum and Bronze

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa Albron." (Aluminum powder and paste; pigments for aluminum paint.)
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
 Baer Bros., 438 W. 37th St., New York, N. Y. (Aluminum bronze powder.)
 Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass. "Modene."
 Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
 Forbes Finishes Div., Pittsburgh Plate Glass Co., 2800 W. 148th St., Cleveland 11, Ohio. (Aluminum.)
 Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frospar." (Aluminum.)
 Hack Paint & Chemical Works, Inc., Box 190, Phoenixville, Pa. "Metalock."
 Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill. "Illbronze."
 Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Chrombrite" (Aluminum.)
 Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio.
 Reynolds Metals Co., 2500 S. Third St., Louisville 1, Ky.
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

PANELS, Plywood

Harbor Plywood Corp., Box 940, Aberdeen, Wash. "Super-Harbor," "Harborite."
 Haskellite Mfg. Corp., 701 Ann St., N. W., Grand Rapids 2, Mich. "Haskellite," "Plymetl," "Phemaloid," "Plymold." (Resin-glued plywood.)
 Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Metal covered.)
 Technical Ply-Woods, 228 N. La Salle St., Chicago 1, Ill.
 United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., New York 18, N. Y. "Weldwood," "Armormply," "Tekwood," "Honeycomb," "Flexwood."

PANELS, STEEL, See Steel, Sheet

PARTS, Brake

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
 Andrew Parts Mfg. Co., 49 Amsterdam Ave., N. Y. 23, N. Y.
 Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "B-K." (Also hand control valve.)
 Bendix Westinghouse Automotive Air Brake Co., 901 Cleveland Road, Elyria, Ohio. (Air.)
 Bohn Aluminum & Brass Co., Service Div., 1400 Lafayette Blvd., Detroit 26, Mich.
 Chefford Master Mfg. Co., Fairfield, Ill. "Master." (Hydraulic.)
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Yokes, for assemblies, etc.)
 Eis Automotive Corp., Middletown, Conn. (Hydraulic and mechanical; also master cylinders.)
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Sav-a-Life." (Wheel cylinder cups.)
 Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio. (Hydraulic.)
 Hydraulic Specialties Co., 65 Burbank Dr., Snyder 21, N. Y. "Hyspeco." (Hydraulic pressure limiting valves.)
 Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (Hydraulic, for Ford and Chevrolet cars.)
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan." (Vacuum power brake valves and chambers.)
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Hydraulic.)
 Lorraine Mfg. Corp., 54 W. Hunter Ave., Maywood, N. J. (Hydraulic brake rubber cups, boots; also valves.)
 Mercury Brake Products Co., 1532 W. Fulton St., Chicago 7, Ill.
 Midland Steel Products Co., 6666 Mt. Elliott Ave., Detroit 11, Mich. (Air conversion valve kit.)

ALCOA ALUMINUM

THE LIGHT METAL THAT LASTS

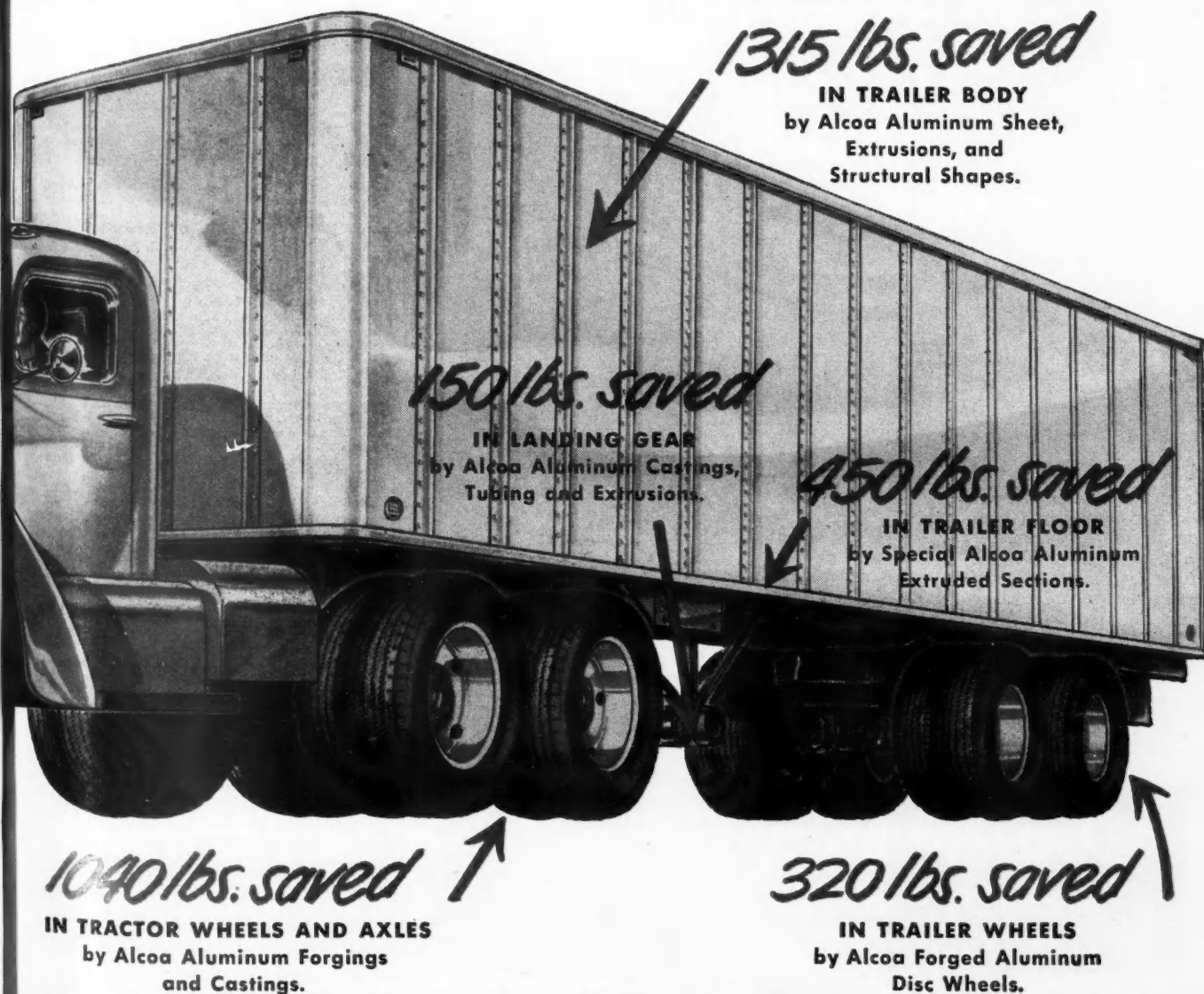
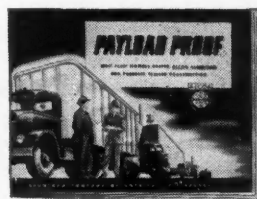


After all, it's *payload* that earns your profits. So when you add payload capacity by reducing dead weight... with Alcoa Aluminum... you're really putting money in the bank! Plus what you save on maintenance, because aluminum resists corrosion, repairs easily.

Right now, military needs for light metals may limit the aluminum equipment you can buy. But looking ahead, figure how much more payload you'll be able to haul when you *can* make the most of aluminum's advantages.

Take a look at the average weight-saving figures opposite, based on a tandem tractor and 32' tandem semi. Yours may be less, or more, depending on size and type. One result is sure. You'll find... "Extra payload is the payoff" with Million-Milers of Alcoa Aluminum!

Send for Free Trailer Book—This 36-page "Payload Proof" book, showing many types of aluminum trailers, will be valuable in your long-range planning for more profitable equipment. For your free copy, write ALUMINUM COMPANY OF AMERICA, 1876L Gulf Building, Pittsburgh 19, Penna.



MILLION MILERS OF ALCOA ALUMINUM

COMMERCIAL CAR JOURNAL, November, 1951

PARTS, Brake—continued

Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
 Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (Hydraulic.)
 Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Calif. (Hydraulic.)
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco." (Hydraulic.)
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Hydraulic.)
 Otto Items, Inc., 4390 Olive St., St. Louis 8, Mo. "Tru-Torque." (Hydraulic brake, master and wheel cylinders.)
 Par Mfg. Co., 3765 93rd St., Jackson Heights, L. I., N. Y. (Cups, boots and valves; diaphragms for air, vacuum brakes.)



Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 10, Mich. (Vacuum power brake valves.)
 Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
 Seale, Inc., Homer T., 5330 Alhambra St., Los Angeles 32, Calif. "Sealco." (Relay emergency valve, for trailers.)
 Sunset Hydraulic Co., 16825 S. Broadway, Gardena, Calif. "Elder." (Safety valves.)

Supeco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y. (Hydraulic and vacuum power booster.)
 Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
 United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (Cylinders.)
 Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum tanks.)
 Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis. (Vacuum power and air, for trucks and trailers.)
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed." (Air and hydraulic.)
 Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio. (Hydraulic.)

PARTS, BODY, See Body Parts (Pre-Shaped)

PARTS, Carburetor

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
 Automotive Research & Mfg. Co., 88-05 76th Ave., Glendale 27, N. Y. "Arm-Co."
 Guaranteed Parts Co., Seneca Falls, N. Y.
 Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
 International Spare Parts Co., 5-01 46th Rd., Long Island City 1, N. Y.
 National Machine Works, Inc., 1800 S. Broadway, Oklahoma City 9, Okla.
 Octa-Gane, 605½ W. Las Turas Drive, San Gabriel, Calif.
 P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
 Precision Automotive Components Co., 7263 Lansdowne St., St. Louis 19, Mo. "Pacco."
 Simmons Mfg. Co., Ashland, Ohio.
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
 Van Berger & Greener, Inc., 1619 N. Hoyne Ave., Chicago 47, Ill.

PARTS, Clutch

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio. (Pressure assembly component parts.)
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko." (Forks.)
 Automotive Replacements, Inc., 2251 S. Michigan Ave., Chicago, Ill.
 Automotive Research & Mfg. Co., 88-05 76th Ave., Glendale 27, N. Y. "Arm-Co."
 Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg & Beck."
 "Long." "Rockford."
 Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Elgin Machine Works, 412 N. State St., Elgin, Ill.
 Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
 Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio. (Springs and fork kits.)
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
 Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill. (Clutch cover assembly parts.)
 Perfect Parts, Inc., 55 Amsterdam Ave., New York, N. Y.
 Wohler Corp., 700 E. Grand River Ave., Lansing 6, Mich.
 Wellman Co., S. K., 1375 E. 51 St., Cleveland, Ohio. "Velvetouch."

PARTS, Distributor, See Parts, Magneto, Coil and Distributor

PARTS, Front End Suspension

Bashian & Sons Co., Henry, 40375 Grand River Ave., Farmington, Mich. "Head Line."
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
 Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
 Chefford Master Mfg. Co., Fairfield Ill. "Master."
 Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
 Hershey Metal Products Co., Geary Div., Derby 2, Conn. "G-H."

NEW FROM SPARTON

The greatest air horn of them all for air-equipped trucks and buses... from Sparton



Model 270 Air Horn
Compressed-air operated

Extra-rugged, matched pair, same as developed by Sparton for U.S. military vehicles, with a special, powerful *high-way* tone for plenty of sales in the big air-equipped truck and bus market. No horn value like it anywhere... because it's Sparton. *Order now!*

**Makers of Quality
Automotive Equipment
Since 1900**



CHECK THESE SALES FEATURES:

- Requires only 10-100 pounds air pressure to operate.
- Low air consumption—only 6 cubic feet per minute at 100 lbs. pressure.
- Conforms to rigid requirements of U.S. Army Ordnance.
- Factory-tuned and sealed for long life.
- Rugged construction.
- Weatherproof.
- Sturdy control valve gives wide range of sound output.
- Low price.



"and under the hood HERCULES!"

"HERCULES ENGINES 3 to 500 H. P."

GAS AND GASOLINE ENGINES

Model	Bore and Stroke	Cu. In. Displ.
Two Cylinder		
BXB	2 1/2" x 3"	39
NXA	3" x 4"	56.5
NXB	3 1/2" x 4"	66.3
Four Cylinder		
ZXA	2 1/2" x 3"	59
ZXB	2 3/4" x 3"	65
IXA	3" x 4"	113
IXB	3 1/4" x 4"	133
IXLB	3 1/4" x 4 1/2"	141
JX4E	3 1/2" x 4 1/4"	164
JX4C	3 3/4" x 4 1/4"	188
JX4D	4" x 4 1/4"	214
Six Cylinder		
QXA	3 1/2" x 4 1/2"	190
QXB	3 3/4" x 4 1/2"	205
QXC	3 3/4" x 4 1/2"	221
QXLD	3-7/16" x 4 1/2"	236.7
JXE	3 1/2" x 4 1/2"	245
JXB	3 3/4" x 4 1/2"	263
JXC	3 3/4" x 4 1/2"	282
JXD	4" x 4 1/2"	320
JXLD	4" x 4 1/2"	339
WXC-3	4 1/4" x 4 1/2"	383
WXC	4" x 4 1/2"	358
WXC-3	4 1/4" x 4 1/2"	404
TDXB	4 1/4" x 5 1/4"	474
RXB	4 1/4" x 5 1/4"	501
RXC	4 1/4" x 5 1/4"	529
RXLC	4 1/4" x 5 1/4"	529
RXLD	4 1/4" x 5 1/4"	558
RXLDH	4 1/4" x 5 1/4"	558
HXB	5" x 6"	707
HXC	5 1/4" x 6"	779
HXD	5 1/2" x 6"	855
HXE	5 3/4" x 6"	935

DIESEL ENGINES

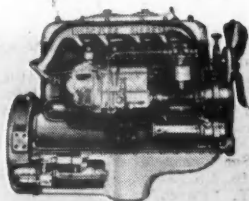
Model	Bore and Stroke	Piston Displ. Cu. In.
Two Cylinder		
DIXC	4" x 4 1/2"	113.1
DIXD	4 1/4" x 4 1/2"	127.5
Four Cylinder		
DIX4B	3 1/4" x 4"	133
DIX4D	3 3/4" x 4"	166
DOOB	3 3/4" x 4 1/2"	198.8
DOOC	4" x 4 1/2"	226.2
DOOD	4 1/4" x 4 1/2"	255
Six Cylinder		
DIX6D	3 3/4" x 4"	249
DIXB	3 1/2" x 4 1/2"	260
DIXC	3 3/4" x 4 1/2"	298
DIXH	3 3/4" x 4 1/2"	298
DIXHF	3 3/4" x 4 1/2"	298
DWXC	4" x 4 1/2"	358
DWXD	4 1/4" x 4 1/2"	404
DWXL	4 1/4" x 5"	426
DWXLDF	4 1/4" x 5"	426
DRXB	4 1/4" x 5 1/4"	474
DRXC	4 1/4" x 5 1/4"	529
DFXB	5" x 6"	707
DFXC	5 1/4" x 6"	779
DFXD	5 1/4" x 6"	855
DFXE	5 1/4" x 6"	895
DFXH	5 1/4" x 6"	935
DFXHF	5 1/4" x 6"	935
Eight Cylinder		
DNX V-8C	6" x 6"	1348
DNX V-8D	6 1/4" x 6"	1468
DNX V-8DS	6 1/2" x 6"	1468

Hercules POWER UNITS are available, equipped with any of the above engines

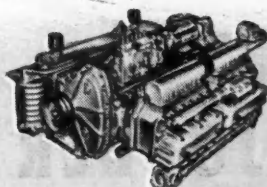
Trucking is big business . . . and Fleet Operators from coast to coast are quick to vouch for the important part dependable Hercules Diesel, Gasoline and Butane-Propane Engines play in maintaining schedules and producing payload profits.

Now, with stepped-up transportation activities . . . and American economy again entering a period of short supply . . . truck operators, who benefited from past experience, are placing a new value on the name HERCULES. They know you can look to Hercules for: (1) the traditional, top-quality construction which means low operating cost . . . LONGER LIFE . . . and minimum maintenance plus (2) a choice of gasoline, diesel or butane-propane power. With HERCULES, you are sure to have the engine best suited to your requirements.

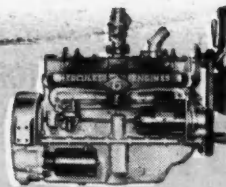
To make sure there's a Hercules under the hood . . . plan tomorrow's power requirements today! Hercules engineers stand ready to assist you . . . and, of course, there is no obligation.



HERCULES MODEL DRXC — 6 cylinder diesel engine, 4-3/4" x 5-1/4", 529 cubic inch piston displacement, develops 147 h.p. at 2200 r.p.m.



HERCULES MODEL DFXHF — horizontal type 6 cylinder diesel engine, 5-3/4" x 6", 935 cubic inch piston displacement, develops 260 h.p. at 2100 r.p.m.



HERCULES MODEL QXLD — 6 cylinder gasoline engine, 4" x 4 1/2", 339 cubic inch piston displacement, develops 121 h.p. at 2600 r.p.m.

HERCULES MOTORS CORPORATION, Canton, Ohio, U. S. A.

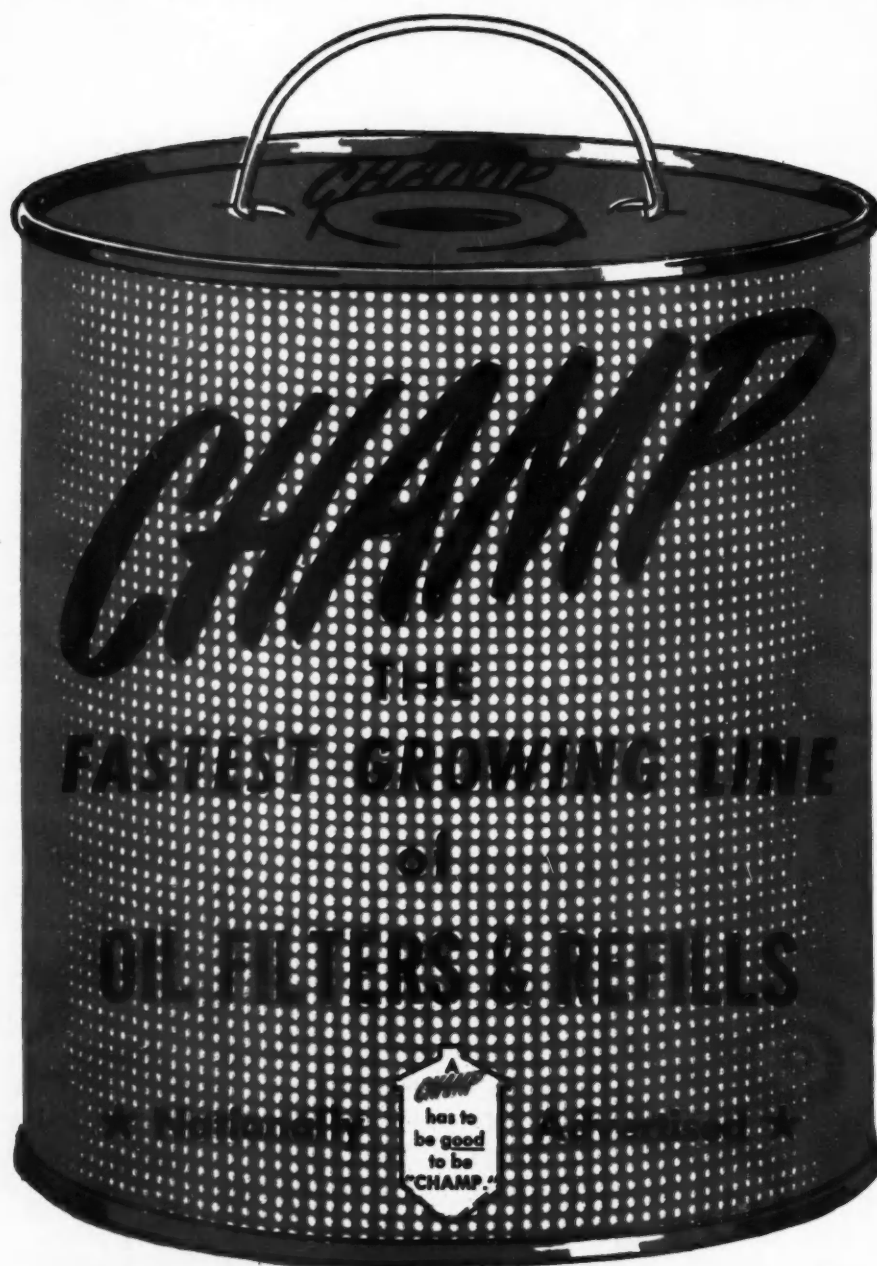
PARTS, Front End Suspension—cont.

King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
 McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
 Master—See Chefford Master Mfg. Co.
 Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo. (Knee action coil springs.)
 Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
 Moog Coil Action Parts Co., Div. of Moog Industries, 6650 Easton Ave., St. Louis 14, Mo.
 Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."

Pressed Metals of America, Inc., Port Huron, Mich. (Distributors to replacement trade, McQuay-Norris Mfg. Co., Connersville, Ind.; Thompson Products, Inc., Cleveland, Ohio.)
 Rowland, Inc., William & Harvey, Lewis & Tacony Sts., Philadelphia 24, Pa.
 Speedway Products Co., 1402 E. 20th St., Indianapolis, Ind.
 Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
 Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
 Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.
 Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind. (For Chevrolet cars.)

PARTS, Fuel Pump

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind. (Push rods.)
 Airtex Automotive Div., Chefford Master Mfg. Co., Fairfield, Ill.
 Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
 Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. "Air Link."
 Champ-Items, Inc., 6191 Maple Ave., St. Louis 10, Mo.
 Chefford Master Mfg. Co., Fairfield, Ill. "Master."
 Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y. "Monoflex."
 International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
 Kregger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (For A. C. pumps.)
 Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Cal. "Masco."
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
 Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Rapids, Mich. (Shafts.)
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Simmons Mfg. Co., Ashland, Ohio. (For Ford, Chevrolet and Plymouth cars.)
 United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For A. C. pumps.)
 Van Bergen & Greener, Inc., 1619 N. Hayes Ave., Chicago 47, Ill. "Van."



CHAMPION LABORATORIES INC., MERIDEN, CONN., U. S. A.

ORDER FROM YOUR JOBBER

PARTS, Generator

F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
 International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
 Koch Mfg. Co., Box 368, Springfield, Ohio.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. "Vulcan." (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
 Van Berger & Greener, Inc., 1619 N. Hayes Ave., Chicago 47, Ill.

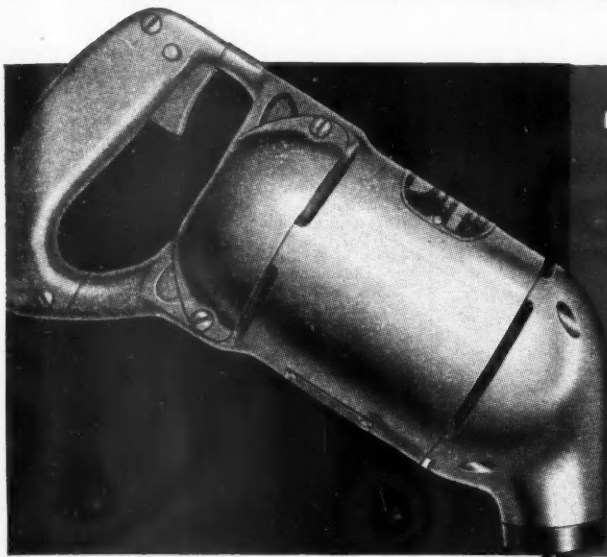
PARTS, LIST, See List, Parts

PARTS, Magneto, Coil and Distributor

American Hard Rubber Co., 11 Mercer St., New York 13, N. Y.
 American Motor Products Co., Fond du Lac, Wis. "Ampeco." (Distributor rotors.)
 Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo. (Caps and rotors.)
 Andrew Parts Mfg. Co., 49 Amsterdam Ave., N. Y. 23, N. Y.
 Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.
 Echlin Mfg. Co., 220 East St., New Haven, Conn. (Coil and distributor.)
 D.S.M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Distributor caps and rotors.)
 Guaranteed Parts Co., Seneca Falls, N. Y. "GP." (Rotors.)
 Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
 Keystone Carbon Co., 1935 State St., St. Marys, Pa.
 Lothrop Co., Frank B., 81 River St., South Acton, Mass. "Tiger." (Distributor plates for Ford cars.)
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y. (Distributor heads and rotors.)
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. "Vulcan." (Distributor plates, caps, rotors, plates, etc., sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
 Parco—See Parts Mfg. Co.
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
 Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Distributor caps and nipples.)

For finer, faster VALVE JOBS...

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B&D VIBRO-CENTRIC* VALVE SEAT GRINDER

is fast, accurate, foolproof. Concentric grinding insures correct alignment, mirror finish. Vibrating action reduces stone wear, prevents stone loading. Powerful, yet light in weight. Available in complete kits offering assortments of equipment for all the most popular cars or for special groups of cars, trucks and tractors.



B&D DELUXE SUPER-SERVICE VALVE REFACTOR

is equipped for complete job, no extras to buy! Requires no complicated adjustment. Permits traverse grinding of any angle valve face from 0° to 90°. Handles all popular stem sizes, head diameters. Quick-clamp collet for faster operation. Wet grinding at both wheels.



WHEN IT COMES to turning out perfectly matched, gas-tight valve assemblies, nothing else can hold a candle to Black & Decker Valve Reconditioning equipment! Designed for years of dependable service, these correctly engineered, precision-built Tools get the job done faster, get it right the *first* time, to help you make more profits!

See your nearby B&D Distributor for a demonstration of these Valve Refacers, Valve Seat Grinders and Kits. Ask him

about the many other B&D Tools that cut your costs on any job. Let him show you why—for speed, precision and profits—it pays to "Switch to Black & Decker POWER!" Write today for free catalog to: THE BLACK & DECKER MFG. CO., 632 Pennsylvania Ave., Towson 4, Maryland.



*Trade Mark Reg. U. S. Pat. Off.

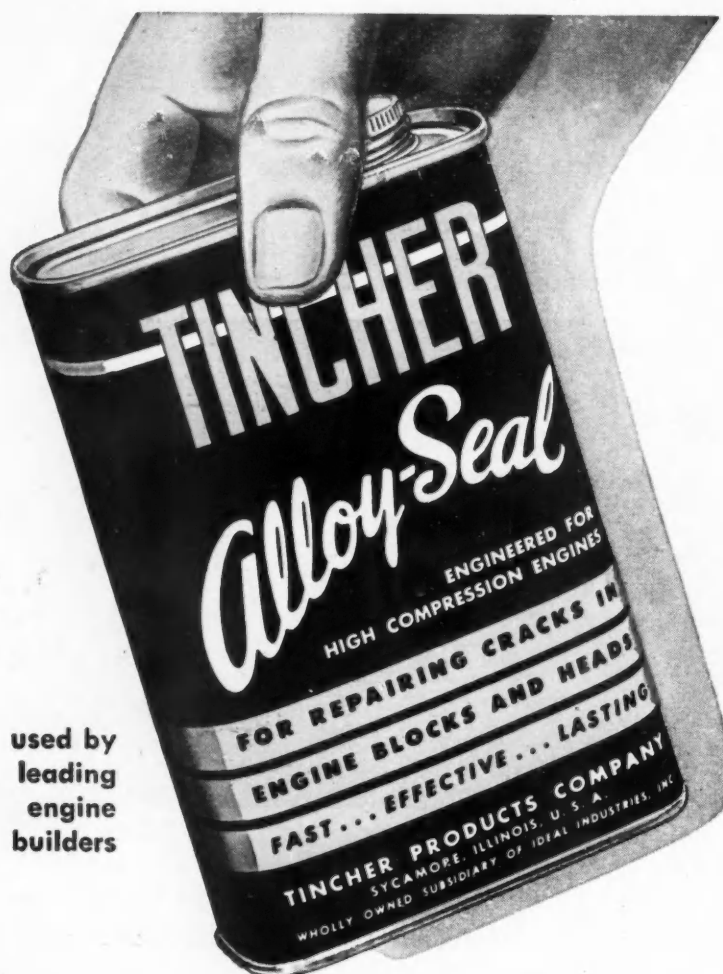
PARTS, Magneto, Coil and Distributor
—continued

Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill. (Distributor caps and rotors.)
Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y. (Distributor heads and rotors.)
Spark-O-Liner Corp., 601 11th Ave. S., Minneapolis 4, Minn. (Distributor saver rings.)
Specialty Insulation Mfg. Co., Hoosick Falls, N. Y. (Distributor caps.)
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard." (Distributor heads and rotors.)
Synchronomatic Mfg., Inc., 714 Bryant St., Jackson, Mich. (Distributor plates.)

Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J. (Caps and rotors.)
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y. (Distributor.)
Van Bergen & Greener, Inc., 1619 N. Hoyne Ave., Chicago 47, Ill. "Van." (Distributor.)
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go." (Distributor caps and rotors.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Distributor.)

PARTS, Starting Motor Drive

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.



used by
leading
engine
builders

The very best you can use!



Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. (Springs.)
American Motor Products Co., Fond du Lac, Wis. "Ampeco."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Springs.)
Carston Mfg. Co., 431 W. 38th St., New York 1, N. Y.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Echlin Mfg. Co., 220 East St., New Haven, Conn.
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Bendix."
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Fiko."
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Keystone Carbon Co., 1935 State St., St. Marys, Pa.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio. (Bolts.)
Loock & Co., R. J. 343 N. Gay St., Baltimore, Md. (Screws.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
National Machine Works, Inc., 1800 S. Broadway, Oklahoma City 9, Okla. (Bushings and assemblies.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. (Springs.)
Shurhit Products, Inc., Waukegan, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak." (Springs, etc.)
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio. (Screws and washers.)
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., New York 22, N. Y. (Springs, bolts and washers.)
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

PINS, King

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich. (Trailer.)
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Bard Mfg. Co., Royersford, Pa.
Bashian & Sons Co., Henry, 40375 Grand River Ave., Farmington, Mich. "Head Line."
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Bohnalite."
Brown Corp., 218 Bellevue Ave., Syracuse, N. Y.
Chefford Master Mfg. Co., Fairfield Ill. "Master."
Clawson & Bais, Inc., "Ring True." See Bohn Aluminum & Brass Corp.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Elgin Machine Works, 412 N. State St., Elgin, Ill. (Assemblies.)
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (For Ford cars.)
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo.
Master—See Chefford Master Mfg. Co.
Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.
Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Precision Parts Co., Div. Economy Baler Co., 1200 N. Main St., Ann Arbor, Mich.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
St. Louis Spring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo. "Moog."
Superior Machine Tool Co., 329 E. Firms St., Kokomo, Ind.

Here's Le Roi's sensational *"Advanced Design"* engine

the new
200HP
H540
V8



...the most modern power plant
available for heavy-duty trucks

Ask for this engine when you buy your new heavy-duty truck. You get 200 hp from a smooth-running, high compression V-8 engine — a sensationally new engine that gives you greater economy and longer life. Just look at these features:

- ★ Modern V-8, high-compression, valve-in-head design!
- ★ 207 horsepower — speed range, 800 to 3200 RPM
- ★ Lowest weight to horsepower ratio in the industry — only 6 lbs. per HP! You carry bigger payloads.
- ★ Most compact engine in its horsepower range — overall length only 43"!
- ★ Faster acceleration — quick response results from short stroke, light flywheel, and 8-cylinder power impulses!
- ★ Good high-speed performance — large bore and short stroke provide ample valve area. Unique combustion

chamber shape having ample quench area retards detonation!

- ★ Smoother running engine at all speeds — extra rigidity of short box-like crankcase and five large main bearings reduce vibration!
- ★ Long life — replaceable, wet cylinder sleeves wear well, are inexpensive to replace. Stellite valves and seats and positive-type rotators promote long valve life — chrome-plated top ring adds extra miles between overhaul.

So, for better performance and lower operating costs, be sure your new heavy-duty trucks are powered with a Le Roi H-540. The coupon below will bring you a new H-540 catalog and specification sheet. Send for them today.

Condensed H-540 Specifications

Number of cylinders	- - - - -	8
Bore and stroke, inches	- - - - -	4 1/2 x 4 1/4
Displacement, cubic inches	- - - - -	540
Horsepower, rated at rpm	- - - - -	207/3000
Weight bare, lbs.	- - - - -	1250

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1706 S. 68th Street, Milwaukee 14, Wisconsin
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Company.....
Company Address.....
City.....(.....) State.....

E-71

PINS, King—continued

Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Trayer Products, Inc., E. Clinton St., Elmira, N. Y.
Western Automatic Machine Screw Co., 753 Lake Ave., Elyria, Ohio.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

PINS, Piston

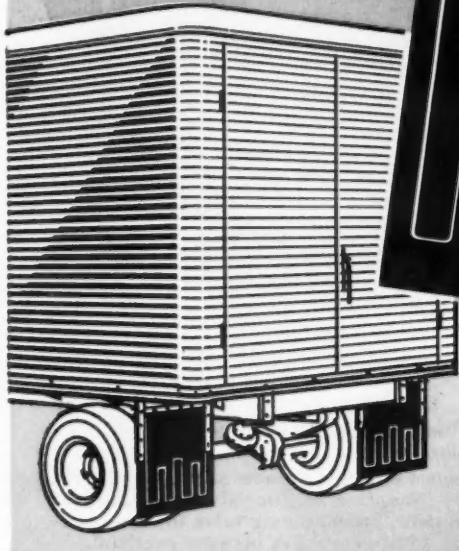
Allied Motor Parts Corp., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."

Andrew Parts Mfg. Co., 49 Amsterdam Ave., N. Y. 23, N. Y.
Bohn Aluminum & Brass Corp., 1400 Lafayette Blvd., Detroit 26, Mich. "Bohnalite."
Brown Corp., 313 Bellevue Ave., Syracuse, N. Y.
Burgess-Norton Mfg. Co., 758 Peyton St., Geneva, Ill. "B-N Perfectlap."
Chefford Master Mfg. Co., Fairfield, Ill.
Clawson & Bals, Inc., See Bohn Aluminum & Brass Corp.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.

McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Marquette Metal Products Co., 1145 Gatewood Drive, Cleveland 10, Ohio.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Nylon Products Co., Lake Shore Drive, St. Joseph, Mich.
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Haven, Mich. "OSP."
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Simplex Products Corp., 3830 Kelly Ave., Cleveland, Ohio.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

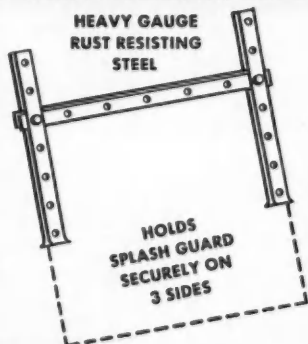
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FOR TRUCKS AND TRAILERS

SPLASH GUARD UNIVERSAL MOUNTING BRACKET



Complete unit—specially designed to mount splash guards. Adaptable to fit any model truck or trailer.

Armor-Flex Splash Guards were designed and tested to meet the most rigid road conditions. They're made of heavy-gauge rubber and are available in two grades and three sizes. The Armor-Flex Deluxe Splash Guard is reinforced with woven fabric and has a brass-plated steel bar imbedded into the mounting edge. Borders are extra-thick for maximum strength. The Standard Splash Guard is Doan's economy type and will prove satisfactory for most road conditions. Both types meet the requirements of state codes. They're pre-punched for quick, easy installation.

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MANUFACTURING CORP.
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PIPES, Tail and Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. (Flexible.)
Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind.
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube." (Bendable.)
De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Uniflex." (Bendable.)
Formed Tubes, Inc., Sturgis, Mich.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Haviland Co., Arnold, Defiance, Ohio. (Also exhaust.)
International Parts Corp., 11th & States Sts., Chicago 5, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hy-Power."
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 2, Ill. (Also bendable.)
Miller-Shelby Products Div., Michigan Steel Tube Products Co., 9450 Buffalo Blvd., Detroit 12, Mich.
Noblitt-Sparks Industries, Inc., Columbus, Ind. (Exhaust.)
Powell Muffler Co., 315 Oriskany St. E., Utica 2, N. Y.
Pratt Industries, Inc., Frankfort, N. Y. (Also bendable.)
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill. (Flexible tail.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.

PISTON EXPANDERS, See Expanders, Piston Skirt

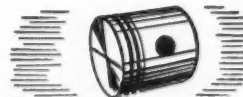
PISTON GRINDING MACHINES, See Machines, Piston Turning and Grinding

PISTON PINS, See Pins, Piston

PISTON RINGS, See Rings, Piston

PISTON RING COMPRESSOR, See Tools, Piston Ring Compressing

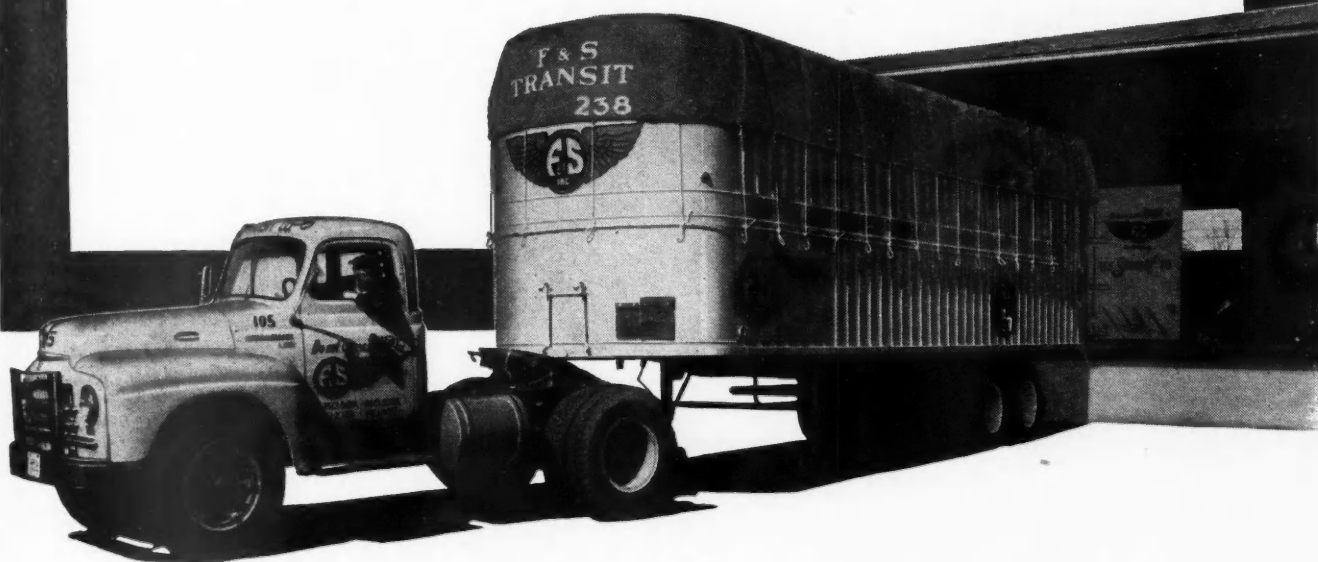
PISTONS



Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded and cast iron ring carriers.)
Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Lo-Ex."
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Arrow Head Steel Products Co., Howell, Mich.
Badger Mfg. Co., 1505 City Court, Marinette, Wis. (Aluminum alloy.)
Balerank, Inc., Disney St. near Marburg, Cincinnati 9, Ohio.

EDWARDS

**TAILORS TRAILERS ON A PRODUCTION BASIS
TO FIT THE JOB THEY'LL HANDLE**



Need more inside body height? More width? Will those extra dimensions add to the ease of handling bulky freight... cut your overhead? Production line flexibility has been so highly developed by Edwards that you can get standard Edwards trailers practically "tailor-made" like this for your job.

Edwards trailers are engineered for hard work and full time duty. They incorporate

every construction feature that has proved sound in practice on the highway. They are built to keep rolling down the road, delivering the goods, for years to come.

You'll find Edwards "tailor-made" trailers are easy rolling, long-lived profit makers in your fleet.

Write today for details. Dept. C-11



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HEAVY DUTY FLATS



SMOOTH PANEL TRAILERS



TRUCK BODIES



TRAINS—DOUBLE BOTTOMS



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TRAILER AND BODY COMPANY
DIV. OF EDWARDS IRON WORKS, INC.
SOUTH BEND 23, INDIANA

PISTONS—continued

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Nelson Bohnalite," "Bohnalite."
Columbia Engineering Co., 505 W. Vine St., Columbia City, Ind.
Continental Motors Corp., Muskegon 82, Mich.
DeLuxe Products Corp., 1435 Lake St., La Porte, Ind. (Light weight cast iron.)
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind. (Aluminum and cast iron.)
Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. "G&E." (Cast iron, aluminum and Vanasil.)
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Aluminum and gray iron.)

McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products Co., Lake Shore Drive, St. Joseph, Mich. (Aluminum and gray iron.)
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
San Diego Machine Co., 345 15th St., San Diego 12, Calif. "Realite."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind. (Aluminum and cast iron.)
Sterling Aluminum Products, Inc., 2925 N. Market St., St. Louis 6, Mo.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Diatrol," "Toledo First-Line."

Triplex Corp. of America, P. O. Box 666, Pueblo, Colo.
Tsungani Piston Co., 625 E. 11th St., Tacoma, Wash.
United Engine & Machine Co., 310 Preda St., San Leandro, Calif. "Sily-O-Lite."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wisconsin Machinery & Mfg. Co., S. 60th St. & Beloit Rd., Milwaukee 14, Wis.
Zollner Machine Works, Fort Wayne, Ind. (Aluminum alloy.)

PISTON RINGS, See Rings, Piston

PISTON RING EXPANDERS, See Expanders, Piston Ring

PLATES, Clutch, Pressure

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eveco Products Co., 160 W. 62nd St., New York 23, N. Y.
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Wellman Co., S. K., 1374 E. 51 St., Cleveland, Ohio. "Velvetouch."

PLATES, FLOORING, See Flooring, Truck and Trailer

PLATES, Step

Hamlin Metal Products Co., 58 Exchange St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio. (Scuff.)
Western Metal Specialty Co., 1213 N. 62nd St., Milwaukee 13, Wis.
Western Motors, 4834 Cermak Rd., Cicero, Ill.

PLIERS, Brake Spring, See Tools, Brake Spring Removing and Replacing

PLIERS, TERMINAL, See Tools, Battery Service

PLOWS, Snow, See Snow Plows

PLUGS, Fusible Safety for hydraulic lines

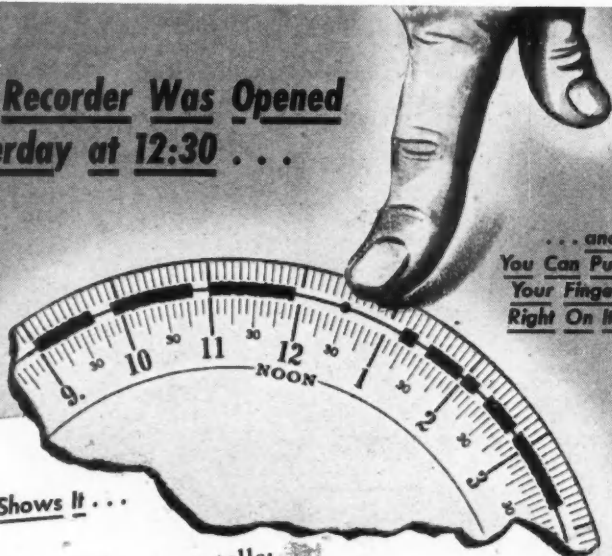
Shand & Jurs Co., 917 Carleton St., Berkeley, Calif.

PLYWOOD, See Panels, Plywood

POINTS (Ignition)

American Motor Products Co., Fond du Lac, Wis. "Ampco."
American Platinum Works, N.J.R.R. Ave. at Oliver St., Newark 5, N. J. "APW."
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Andrew Parts Mfg. Co., 49 Amsterdam Ave., N. Y. 23, N. Y.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Echlin Mfg. Co., 220 East St., New Haven, Conn.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Graphite Metallizing Corp., 1030 Nepperhan Ave., Yonkers 3, N. Y. "Graphalloy."
Guaranteed Parts Co., Seneca Falls, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
Manhattan Coil Corp., 1486 Lakewood Ave., S. E. Atlanta 1, Ga.
National Ignition Mfg. Co., 521 W. 21st St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. "Vulcan." (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)

The Servis Recorder Was Opened Yesterday at 12:30 . . .



... and
You Can Put
Your Finger
Right On It!

The Little Dot Shows It . . .

The Servis Recorder now tells:

When it was Locked!
When it was Unlocked!

It took years for us to figure this out.
By that we mean to figure it out the *right* way.
It had to be simple and trouble-proof. It had to mean:
no *extra work* for the supervisor.
It had to be automatic . . . It is.

All present models have this feature.

Meanwhile, the Servis Recorder keeps on with its main function, now more necessary than ever:

By planning, supervising, organizing and getting real time information—

To get more Productive Work out of Existing Equipment. (It's needed right now.)

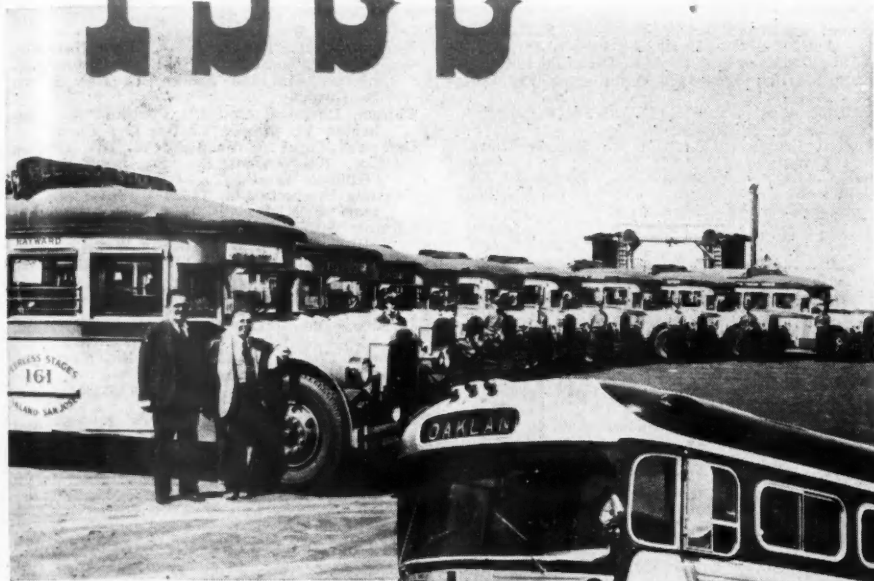
Send for the full story. The Service Recorder Co., 1375 Euclid Avenue, Cleveland 15, Ohio.



The Servis Recorder
Tells Every Move Your Truck Makes

1935

THEN and NOW

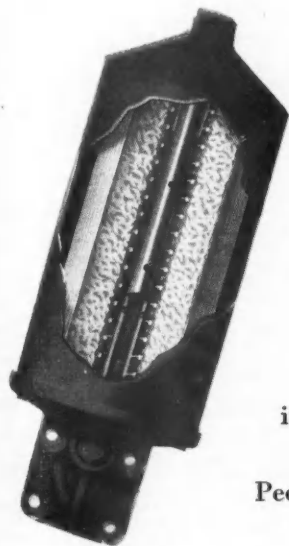


1951

H. D. Gaeta and B. A. Perry, who founded Peerless Stages in 1915, and who appear above with their 1935 fleet, now operate 44 big, modern, Winslow-equipped buses.



PEERLESS STAGES CUT COSTS WITH WINSLOW



Here is a performance story that is almost beyond belief—but not quite, because there are adequate records to prove it. Sixteen years ago, Peerless Stages, Inc., went to their cross-town neighbors in Oakland, Calif., Winslow Engineering Company, for help in increasing the efficiency and cutting the costs of filtration on their fleet of buses running between Oakland, San Jose and Santa Cruz. Winslow Elements made it possible to change oil and elements every 4,000 miles. But when recent tests by oil industry chemists proved the oil was still in good condition, Peerless started changing oil and elements only every 12,000 miles. Have YOU tried Winslow? If not, you'll save money by doing it now!

**THERE'S A WINSLOW FILTER FOR EVERY ENGINE, A WINSLOW ELEMENT FOR ANY FILTER!
CUT YOUR COSTS BY WRITING FOR OUR FREE BOOKLET, "THE CASE OF THE DIRTY DRIP"**

WINSLOW FILTERS

Winslow Engineering Company

4069 Hollis Street • Oakland 8, California

COMMERCIAL CAR JOURNAL, November, 1951

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POINTS, Ignition—continued

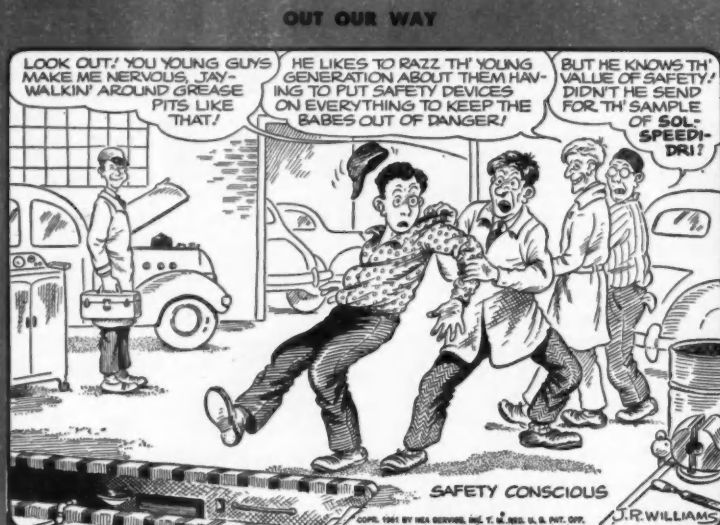
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Speer Carbon Co., St. Marys, Pa.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y. "Super-point."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill. "K-W."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Super Go." "Wells."
Wilson Co., H. A., 105 Chestnut St., Newark 6, N. J. "Wilco."

POLISH, Body

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Atomix, Inc., Box 486, Wilmington 99, Del. "Atolak."
Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa. "Cleanola."
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Belvidere Laboratories, 700 W. Locust St., Belvidere, Ill. "Metalglas."

Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
Boyle-Midway, Inc., 22 E. 40th St., New York 16, N. Y. "Auto-Brite."
Bullseye Corp., 150 Amity St., New Haven 15, Conn. "Plasticote." (Sole distributors Livingston Co., 150 Amity St., New Haven 15, Conn.)
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Lecton Car Care."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Century Products Co., 14324 Birwood St., Detroit 4, Mich.
Clinton Spray Wax Co., 3119 N. 49th St., Milwaukee 16, Wis. (Spray Wax.)
Colorgio Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich. "Rapid-Glow."
Do-Mor, Inc., 1121 Fourth Ave., Rockford, Ill.
Drew & Co., E. T., 15 E. 26th St., New York 10, N. Y. "Gleem."
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill.
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington 98, Del. "Duco." "No. 7."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite." "Fidelity."
Formax Mfg. Co., 3171 Bellevue St., Detroit 7, Mich.
Glidden Co., 11001 Madison Ave., Cleveland, Ohio. "Glid-N."
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Goodrich Co., E. F., 500 S. Main St., Akron, Ohio.
Hohlingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Venus." "Lusterize." (Wax.)
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Johnson & Son, Inc., S. C., Racine, Wis.
Jones Products, Inc., 276 Third St., Cambridge 42, Mass. "Albionite." "Car-Glo."
Ken-Nite Co., 2926 Hancock Ave., W., Detroit 8, Mich. "Ken-Nite." "Ken-Glo."
Lacquerwax Co., 31 Spruce St., Hartford 3, Conn. (Wax.)
Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
Liquid Veneer Corp., Urban & Kehr St., Buffalo 11, N. Y.
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio. "Lazy Man's." "Lustro."
Lustrous Products Co., 287 Kehr St., Buffalo 11, N. Y. "Plasticare."
McAleer Mfg. Div. of Higbie Mfg. Co. Fourth & Water Sts., Rochester, Mich.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Milwaukee Electric Tool Corp., 5316 W. State St., Milwaukee 8, Wis. "Kar-buff" & "Perma-buff."
Mirror Bright Polish Co., 910 E. Colorado St., Pasadena, Calif. "Megular's."
Mirrorlike Mfg. Co., 26th St. & Queens Blvd., Long Island City 1, N. Y. "DeLux."
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Permatex Co., 1720 Ave. Y, Brooklyn 35, N. Y.
Plasticlear Products, Inc., 29 Mills St., Malden, Mass.
Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio. "Spraxit."
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Miracle."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Open."
Silver-Glo Co., 185 S. Main St., Seymour, Conn.
Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill. "Simoniz." "Simoniz Kleener."
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socoony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobilgloss."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Karglo."
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y. "Mobo."
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."



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You owe it to yourself to see how much SOL-SPEEDI-DRI can do to improve the appearance and safety of your garage or service station! Remember, it's America's largest selling oil and grease absorbent—because, all factors considered, it gives more for your money. Without obligation, send the coupon today for a free sample, together with folders about how to keep your floors clean and slip-proof with SOL-SPEEDI-DRI.

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SPEEDI-DRI CORP., 210 W. Washington Sq., Phila. 5, Pa.

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Fill out the coupon and mail today for big, free sample and literature.

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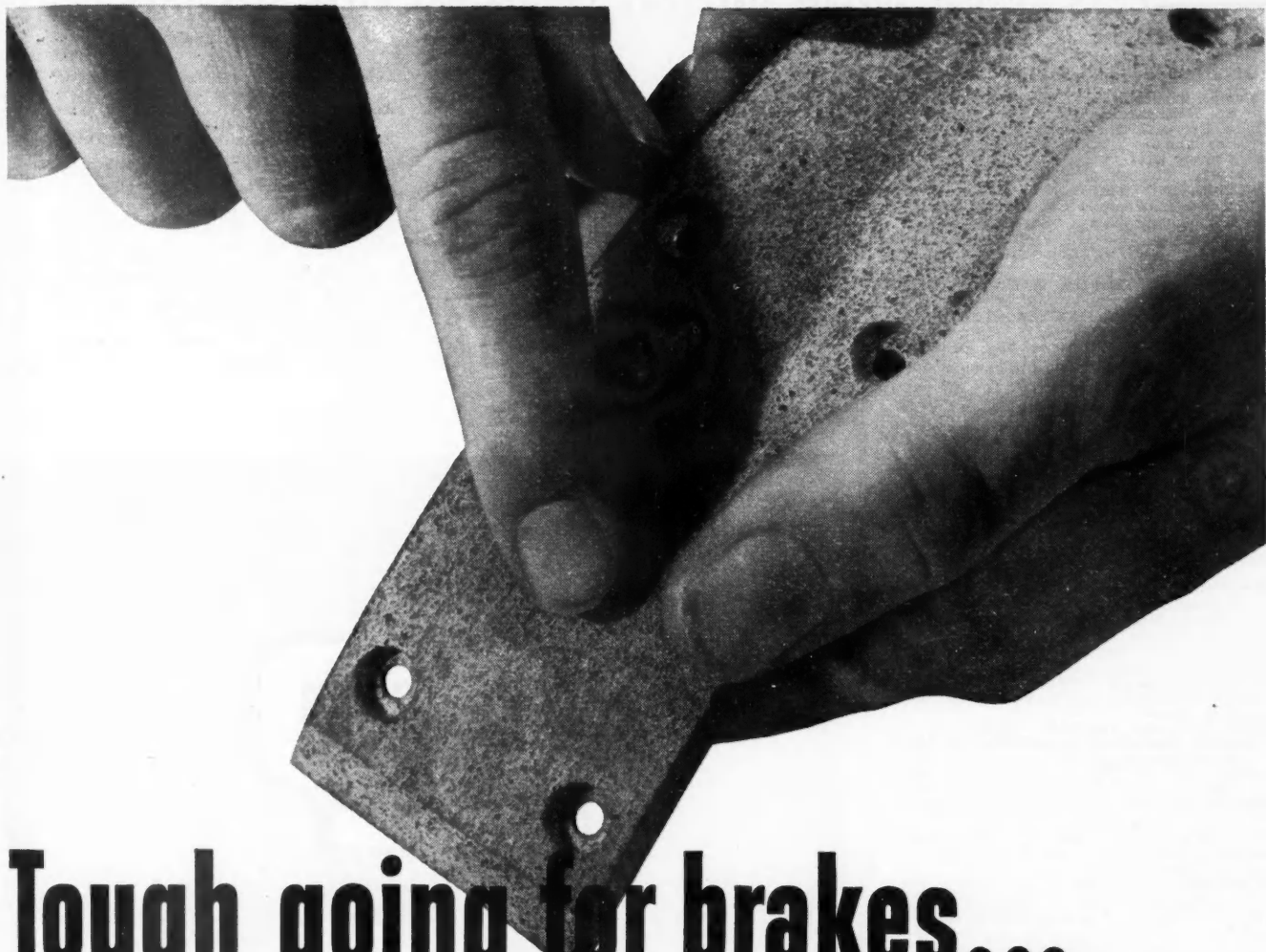
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The wet, the snow, the ice, the frigid cold of winter . . . these are the things that give brake linings a beating. And Inlite is the brake lining that can *take that beating!* For safety's sake . . . reline your brakes with Inlite.

Any vehicle you operate . . . light passenger car to heavy truck . . . will be a safer vehicle on the streets and highways, *safer for you*, if Inlite assures positive, smooth, chatter-free, *safe stops*, for the greatest num-

ber of low-cost miles. Compounded and processed for *each brake on each vehicle*, Inlite is also made in only *one quality, top quality*, tested and proved on the Proving Ground.

Check brakes on all your vehicles NOW, at the *start of bad weather*. And reline where needed, now and always, with Inlite!

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General Motors Corporation • Dayton, Ohio

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INLITE

Brake Linings

POLISH, Body—continued

Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Min-Mum," "Turco Revel."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.
Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
Watts-Wagner Co., 113 Krelinghuysen Ave., Newark 5, N. J. "Color-Blend," "Por-Cel-Seal."
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wilson-Imperial Co., 115 Chestnut St., Newark 5, N. J. "Wonder-Brite."
Zecol, Inc., 155 E. Kilbourn Ave., Milwaukee 1, Wis.

POLISHERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44 St., N. Y. 17, N. Y.
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Cummins Portable Tools Div. of Cummins Chicago Corp., 4740 W. Ravenswood Ave.
Dremel Mfg. Co., 2420 13 St., Racine, Wis.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Jones Motrola Corp., 432 Fairfield Ave., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Nedco Co., 87 Rumford Ave., Waltham, Mass.
Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skilaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Polishers."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.

POLISHERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Keller Tool Co., 1353 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.

POLISHING COMPOUNDS, See Compounds, Rubbing and Polishing

POWER TAKE-OFFS, See Take-Offs, Power

PRESSES, Arbor

Acromark Co., 9 Morrell St., Elizabeth 4, N. J. "Hercules."
Bee-Line Co., Box 569, Davenport, Iowa.
Bellows Co., 222 W. Market St., Akron 9, Ohio. (Pneumatic.)
Benchmaster Mfg. Co., 2952 W. Pico St., Los Angeles 6, Calif.
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Dake Engine Co., 639 Monroe St., Grand Haven, Mich.
Evans Reamer & Machine Co., New Lexington, Ohio. (Electric and hydraulic.)
Famco Machine Co., 1320 18th St., Racine, Wis.
Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
French Oil Mill Machinery Co., Piqua, Ohio.
General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H. (Hand and hydraulic.)
Hannifin Mfg. Co., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Pneumatic.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Electric and hydraulic.)
Logansport Machine Co., Center Ave., Logansport, Ind. "Logan." (Pneumatic and hydraulic.)
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Threadwell Tap & Die Co., Greenfield, Mass. "Little Champ."
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich. "T-J."

Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Watson-Stillman Co., Aldene Rd., Roselle, N. J. (Hydraulic.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. (Starter generator repair.)
Wright Hoist Div. of American Chain & Cable Co., York, Pa.

PRESSES, Hydraulic

Air Hydraulics, Inc., 811 Belden St., Jackson, Mich.
American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.

American Steel Foundries, Elemo Engrg. Div., 1155 Tennessee Ave., Cincinnati 29, Ohio.
Anderson Bros. Mfg. Co., 1907 Kiwaukee St., Rockford, Ill.
Baldwin-Lima-Hamilton Corp., Philadelphia 42, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bliss Co., E. W., 1420 Hastings St., Toledo 7, Ohio.
Chambersburg Engrg. Co., Derbyshire St., Chambersburg, Pa.
Clearing Machine Corp., 6499 W. 65th St., Chicago 38, Ill.
Colton Co., Div. of Snyder Tool & Engrg. Co., 3400 E. Lafayette St., Detroit 7, Mich.

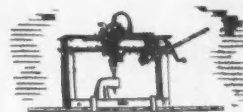
AP



Mileage Getting Mufflers

Dake Engine Co., 630 Monroe St., Grand Haven, Mich. (Electrically, air and hand operated.)
 Denison Engineering Co., 1160 Dublin Rd., Columbus, Ohio.
 Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
 Farquhar Co., A. B., 142 N. Duke St., York, Pa.
 Farrel-Birmingham Co., 97 Main St., Ansonia, Conn.
 Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
 French Oil Mill Machinery Co., Piqua, Ohio.
 Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H.
 Hannifin Mfg. Co., 1101 S. Kilbourn Ave., Chicago 24, Ill.
 Hy-Air Products Co., 1705 Probert Rd., Jackson, Mich. "Hapco."
 Hydraulic Press Mfg. Co., Mount Gilead, Ohio. "H-F-M."
 Hydropress, Inc., 570 Lexington Ave., New York 23, N. Y.

Lake Erie Engineering Corp., 890 Woodward Ave., Buffalo 17, N. Y.
 Lapointe Machine Tool Co., 34 Tower St., Hudson, Mass. "Lapointe Hudson."
 Lempeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. "Elect-Draulic."
 Link Engrg. Co., 18845 Elmira Ave., Detroit 27, Mich.
 Logansport Machine Co., Center Ave., Logansport, Ind.
 Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
 Mesta Machine Co., Box 1466, Pittsburgh, Pa.
 Morgan Engineering Co., Broadway and C. & P. R. R., Alliance, Ohio.
 Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill.
 Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
 Oilgear Co., 1303a W. Bruce St., Milwaukee 4, Wis.
 Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind.
 Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.



Verson Allsteel Press Co., 93rd St. & Kenwood Ave., Chicago, Ill.
 Wabash Metal Products Co., Hydraulic Div., 1569 Morris St., Wabash, Ind.
 Watson-Stillman Co., Roselle, N. J.
 West Tire Setter Co., 399 Exchange St., Rochester 8, N. Y.
 Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.
 Wilson, K. R., 216 Main St., Buffalo 3, N. Y. "K.R.W."
 Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."
 Wood Co., R. D., Room 1072, Public Ledger Bldg., Philadelphia 5, Pa.
 Wright Hoist Div. of American Chain & Cable Co., York, Pa.

PRESSES, Straightening (Wheel)

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
 Bee-Line Co., Box 569, Davenport, Iowa.
 Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
 Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.

PROPANE, See Fuels, Engine

PRUSSIAN BLUE, See Blue, Mechanics

PULLERS, Bearing, Gear and Wheel

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
 All-Power Mfg. Co., 202 Roosevelt Ave., Montecito, Calif.
 Armstrong-Bray & Co., 5364 Northwest Highway, Chicago, Ill. "Steelgrip."
 Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. "Lok Jaw."
 Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Wheel.)
 Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. (Wheel.)
 Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power." (Hydraulic.)
 Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 C. & G. Wheel Puller Co., Scio, N. Y.
 Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Also timing gear.)
 Cam Tool Co., 288 22nd St., Oakland 12, Calif.
 Cornwell Quality Tools Co., Mogadore, Ohio.
 Crane Puller Co., 11 River St., West Newton, Mass.
 Curtiss & Smith Mfg. Corp., 125 E. 4th St., Pottstown, Pa. "C. S."
 Dalton Foundries, Inc., Warsaw, Ind. "Big Boy."
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
 Greb Co., 181 Canton St., Stoughton, Mass.
 Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
 Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
 Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
 K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Wheel.)
 Ken-Tool Mfg. Co., 768 E. North St., Akron 6, Ohio.
 Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
 Miller Mfg. Co., 6919 Tireman Ave., Detroit 4, Mich.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., South St., New Britain, Conn.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 51, Cal.
 Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Rinck McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.

Muffler installation troubles? Switch to AP mufflers and pipes—they're made to fit—save your time and temper.

THE AP PARTS CORPORATION • TOLEDO 1, OHIO
 Manufacturers of: MUFFLERS • PIPES • MIRACLE POWER • dgf-123



The trend is Diesel-

***NOW world's first
spurs swing***



LEADS IN SERVICE, TOO!

GMC maintains the nation's largest network of Diesel service dealers. For prompt, fast service *anywhere* in the U. S., simply call Western Union by number. Ask for "Operator 25." She'll give you the name of your nearest GMC approved service dealer.

the choice is GMC!

"Million-Miler" truck engine to Diesel power

LOOK what's happened to Diesel hauling in just two short years!

Back in 1949, less than five thousand Diesel medium to heavy trucks were sold in the United States.

But already, in the first six months of this year, nearly twice that number of Diesels have been bought by cost-wise truckers. More were GMC's than any other make—and that's only the beginning!

Now Comes the "Million-Miler"

For with General Motors' latest announcement — the unprecedented "Million-Miler" engine—Diesel power offers haulers greater savings and benefits than ever before!

Under the broad hood of every one of these new Diesel-powered GMC trucks and tractors—made in both four- and six-wheel models—lies an engine *built to last a million miles and more!*

Add to this the fact that the new "Million-Miler" commands *12½% more horsepower*, effects even *greater fuel savings* than its famous GMC forerunners of equal size and weight — and you have a hauling success story unequaled by anything ever put on the roads.

No Loafing, No Lugging, No Sludging

Reason for this can be laid squarely to GM developments which make this truck engine perform better, last longer than any you've ever known before.

First, the enthusiastic way this "Million-Miler" picks up its load and packs it through traffic — you know it's not fighting a strain, not draining its fuel tank.

Secret of this performance is a new GM-engineered device called a Fuel Modulator. This "brain" automatically feeds the perfect mix of fuel and air to the "Million-Miler" — regardless of throttle

pressure — in the heretofore critical speed range below 1500 r.p.m.

But the "Million-Miler" is an equally enthusiastic performer at high speeds, too.

Freer Breathing, Cleaner Burning

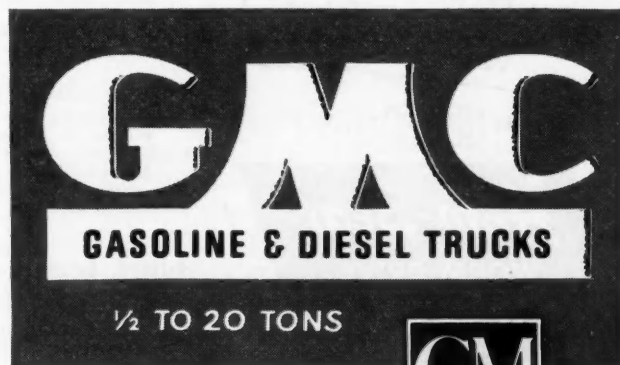
Reason for its steady-gaited, hill-leveling "working stride" is due, in a large measure, to a new camshaft design which keeps the exhaust valves open longer than ever before.

Result is more power per ounce for fuel, longer engine life. Cylinder scavenging is complete — rushes of rich fresh air carry away carbon, perfectly condition the chamber for each charge.

Many other improvements make this new Diesel a "Million-Miler" in fact as well as in name — changes that will not obsolete other GMC Diesel engines because the new components are especially designed to be interchangeable with the old.

Yes, more reasons why — for the life of your hauling — you'd better see what's going on at your GMC dealer's!

GMC Truck & Coach Division of General Motors



Get a real truck!



Your key to
greater hauling profits



There's Always a "New" Clamp on your hose WITH *"Aero-Seal"*

The clamp you need is right there when you need it when you've installed Aero-Seals. You re-use the same Aero-Seals again and again—no running to the store or stockroom for replacements!

REPLACE IN ANY POSITION

The Aero-Seal won't crimp, distort hose, cause leakage. Curved band holds pressure even all around—won't cut.

VIBRATION-PROOF

When threads of worm engage with steel slots in band you can't shake an Aero-Seal loose in a million miles of rough driving. Seals tight, stays tight!

ONE-HAND REPLACEMENT

You can install an Aero-Seal any place you can reach with your thumb and one finger. Integral construction... no screws to lose. Screw-driver slot and thumb-grip types.

ANOTHER **BREEZE MARK** PRODUCT

"Aero-Seal" WORM DRIVE HOSE CLAMPS

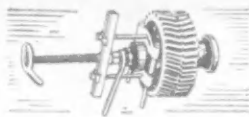


All Aero-Seals have stainless steel bands. Write today for FREE SAMPLE.

BREEZE CORPORATIONS, INC.
41 South Sixth Street • Newark, N. J.

COMMERCIAL CAR JOURNAL'S ANNUAL BUYERS' DIRECTORY NUMBER

PULLERS, Bearing, Gear and Wheel— continued



Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill. (Wheel.)
Simmons Mfg. Co., Ashland, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Springfield Wheel Puller Co., 510 Hubert Ave., Springfield, Ohio. "Springfield," "Mayo."
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. "Simplex-Jenny." (Hydraulic.)
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Ullmo Tool Co., 1561 E. 27th St., Cleveland, Ohio.
Vlehek Tool Co., 3000 E. 87th St., Cleveland, Ohio.
Weidenhoff, Inc., Joseph, Algona, Iowa. (Sole distributors; Bowser, Inc., Fort Wayne 2, Ind.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio. (Wheel.)
Zim Mfg. Co., 3007 Carroll Ave., Chicago, Ill.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

PULLERS, Cylinder Head

Cornwell Quality Tools Co., Mogadore, Ohio.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich. (For Ford cars.)

PULLERS, Cylinder Sleeve

Atmarrs Tool Co., 2411 Chestnut St., Oakland, Calif.
Fort Dodge Machine & Supply Co., 529 First Ave., S. Fort Dodge, Iowa. "Precision."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Hein Werner Corp., 1200 National Ave., Waukegan, Wis. (Hydraulic.)
Marvel Tool & Machine Co., 1096 N. River Rd., St. Clair, Mich. (Hydraulic-operated.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Ohio Piston Co., 5340 Hamilton Ave., Cleveland 14, Ohio.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."

PULLERS, VEHICLE, See Towers

PUMPS, Brake (Vacuum)

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Hetsel Bros., 1972 S. Los Angeles St., Los Angeles, Calif.
Kelsey-Hayes Wheel Co., 2600 Military Ave., Detroit 32, Mich. "Lathan."

PUMPS, Drum or Barrel Type

Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Bennett."
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn.

PUMPS, Fuel

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Mechanical, also combustion fuel feed and vacuum.)
Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Airtex Automotive Div., Chefford-Master Mfg. Co., Fairfield, Ill. (Also combination fuel and vacuum.)

Budd Wheel Distributors provide the same service described in this advertisement

AKRON—Motor Rim Manufacturers Co.
ALBANY—Wheels, Incorporated
ALBUQUERQUE—Wheels & Brakes, Inc.
ATLANTA—Harris Automotive Service, Inc.
BALTIMORE—R. W. Norris & Sons, Inc.
BIRMINGHAM—Wheel, Rim & Parts Co.
BOSTON—New England Wheel & Rim Co.
BUFFALO—Frey, the Wheelman, Inc.
CHARLOTTE—Carolina Rim & Wheel Co.
CHATTANOOGA—Harris Automotive Service, Inc.
CHICAGO—Stone Wheel, Inc.
CINCINNATI—Rim & Wheel Service, Inc.
CLEVELAND—Motor Rim Manufacturers Co.
COLUMBUS—Hayes Wheel & Spring Service
DALLAS—Southwest Wheel, Inc.
DAVENPORT—Stone Wheel, Inc.
DAYTON—Rim & Wheel Service, Inc.
DENVER—Quinn & McGill Motor Supply Co.
DES MOINES—Des Moines Wheel & Rim Co.
DETROIT—H. & H. Wheel Service, Inc.
EVANSVILLE—Auto Wheel & Rim Service Co., Inc.
FARGO—Wheel Service Company
FORT WAYNE—Wheel & Rim Sales Co.
GRAND RAPIDS—Rim & Wheel Service Co.
HARRISBURG—Standard Rim & Wheel Co.
HARTFORD—Connecticut Wheel & Rim Co.
HOUSTON—Southwest Wheel & Equipment
INDIANAPOLIS—Indiana Wheel & Rim Co.
JACKSONVILLE—Southeast Wheel & Rim Co.
KANSAS CITY—Borbein, Young & Co.
KNOXVILLE—Harris Automotive Service, Inc.
LOS ANGELES—Wheel Industries, Inc.
LOUISVILLE—Auto Wheel & Rim Service
MEMPHIS—Beller Wheel, Brake & Supply Co.
MILWAUKEE—Stone Manufacturing Co.
MOLINE—Mutual Wheel Co.
NASHVILLE—Beller Wheel, Brake & Supply Co.
NEWARK—Automotive Safety Inc.
NEW HAVEN—Connecticut Wheel & Rim Co.
NEW ORLEANS—Southern Wheel & Rim Co.
NEW YORK—Wheels, Incorporated
OKLAHOMA CITY—Southwest Wheel, Inc.
OMAHA—Morgan Wheel & Equipment Co., Inc.
PEORIA—Peoria Wheel & Rim Co.
PHILADELPHIA—Thomas Wheel & Rim Company
PITTSBURGH—Wheel & Rim Sales Co.
PORTLAND—Six Robbles', Inc.
PROVIDENCE—New England Wheel & Rim Company
RALEIGH—Carolina Rim & Wheel Co.
RICHMOND—Dixie Wheel Co., Inc.
ROCHESTER—Frey, the Wheelman, Inc.
SALT LAKE CITY—Henderson Rim & Wheel Service
SAN ANTONIO—Southwest Wheel & Equipment
SAN FRANCISCO—Wheel Industries, Inc.
SEATTLE—Six Robbles', Inc.
SOUTH BEND—Wire & Disc Wheel Sales & Service
SPOKANE—Bearing & Rim Supply Co.
SPRINGFIELD, ILL.—Illinois Wheel & Brake Co.
SPRINGFIELD, MO.—Borbein, Young & Co.
ST. LOUIS—Borbein, Young & Co.
ST. PAUL—Wheel Service Co.
SYRACUSE—Colbourn Wheel & Rim Service, Inc.
TACOMA—Six Robbles', Inc.
TOLEDO—Wheel & Rim Sales Co.
WICHITA—Borbein, Young & Co.

EXPORT

CLEVELAND—C. O. Brandes, Inc.

CANADA

CALGARY—Fisk Tire Service Ltd.
EDMONTON—Alberta Wheel Distributors, Ltd.
MONTREAL—Auto Wheels & Supplies, Ltd.
TORONTO—Wheel & Rim Co. of Canada, Ltd.
VANCOUVER—Wheels & Equipment, Ltd.
WINNIPEG—Ft. Garry Tire Service Ltd.



The Payoff is in the Payload!

Lightweight Budd Wheels Pay For Themselves In One Year!

One hundred gallons more payload every trip!

That's what Lang Transportation Corporation, operators of the largest petroleum tank fleet in the West, are getting since they changed over to Budd high tensile steel wheels. The complete cost of the new wheels will be paid back in twelve months. And the savings will go on . . . and on.

Eldo Miller of Wheel Industries, Budd wheel distributor in Los Angeles, recommended the change-over to 10 x 22 tires on 22 x 7.50 Budd wheels late in 1950. Since then unit after unit has been changed . . . today Budd lightweight steel wheels are specified on all new equipment purchased.

Mr. A. D. Farrell, of Lang Transportation, tells us he has discovered many other advantages, over and above increased payload. Such things as lower fuel consumption . . . less brake wear . . . increased tire life. And, in this application, there has been considerably less maintenance-repair work required on tanks and tank baffles since Lang has been able to operate with full compartments.

Budd high tensile steel wheels are completely interchangeable with standard wheels, require no special parts, provide dependable strength with weight savings of approximately 27 pounds per wheel over standard Budd wheels—more over others.

Why not call your Budd wheel distributor . . . listed at the left. It won't cost a penny to find out if you, too, can profit with such a change-over.

The Budd Company, Detroit 14



GENUINE

Budd

COLD TAPERED DISC

WHEEL

*Available in both standard
and lightweight construction.*

PUMPS, Fuel—continued

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Autopulse Corp., 218 E. Dowland St., Ludington, Mich. (Electric.)
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. "BMC."
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. (Electric and mechanical.)
Chefford Master Mfg. Co., Fairfield, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Grant Storage Battery Co., 226 N. 2nd St., Minneapolis, Minn.
Hygrade Products Div., Standard Motor Products, Inc., 33-35 35th St., Long Island City 1, N. Y.



Jordan Electrical Mfg. Co., 222 N. 2nd St., Minneapolis, Minn.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. (Also combination fuel and vacuum.)
Murray Auto Specialty Co., Airprene Div., 1228 S. Olive St., Los Angeles 15, Calif.
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill. (Electric, vacuum.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Vepco Fuel Pump Sales, 17304 Lahser Rd., Detroit 19, Mich.

PUMPS, Gasoline (Filling Station)

American Pumps, Inc., 1035 Woodrow St., Cincinnati 4, Ohio. "American Beauty."

Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Correct Mfg. Co., Box 190, Rochester, Pa. "Correct-O-Meter."
Dayton Pump & Mfg. Co., 500 N. Webster St., Dayton, Ohio. "Rapidayton."
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Calco-Meter," "Gilbarco."
National Store Specialty Co., Bareville, Pa. "Pennsylvania."
Phillips Pump & Tank Co., 1432 State Ave., Cincinnati 4, Ohio.
Smith Corp., A. O. Meter Div., 5715 Smithway St., Los Angeles 27, Calif. "Smithway."
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Tokheim Oil Tank & Pump Co., 1602 Wabash Ave., Fort Wayne, Ind.
Wayne Pump Co., Tecumseh & Cochran Sts., Ft. Wayne 4, Ind.
Wilson's Sons, Inc., Wm. M., 8th St. & Franconia Ave., Lansdale, Pa. "Gasboy."
Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Bennett."

PUMPS, Hydraulic

Jarp Corp., Wausau, Wis. "PumPac."
Melling Tool Co., Box 37, Jackson, Mich.
Vickers, Inc., 1418 Oakman Blvd., Detroit 22, Mich.

PUMPS, Oil

Wohlert Corp., Lansing 5, Mich.

PUMPS, Water

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Atlas Brass Foundry Co., 32 W. Deahler Ave., Columbus, Ohio. "Abco." "Everseal."
Automatic Steel Products, Inc., 1201 Camden Ave. S. W., Canton 6, Ohio. "Linmar."

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Automotive Replacements, Inc., 2251 S. Michigan Ave., Chicago, Ill. "Exact."
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati 9, Ohio.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 6, Mich.
Chefford Master Mfg. Co., Fairfield, Ill. "Master."
Clawson & Bals, Inc. "Ring True." See Bohn Aluminum & Brass Co.
Elgin Machine Works, 412 N. State St., Elgin, Ill. (For Ford, Chevrolet and Plymouth cars.)
Grapho Products, Inc., P. O. Box 300, Lawrence, Ind.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog." (For Ford, Chevrolet and Plymouth cars.)
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
L C Products, Inc., 2232 Alford St., Indianapolis 7, Ind.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Marathon Foundry & Machine Co., 1212 West St., Wausau, Mich.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind. "Hy Duty."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind. "WMP."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

RACKS, Stock, Tire and Tool (Metal)

Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.



AM

TRAILER



✱ ALUMINUM-MAGNESIUM

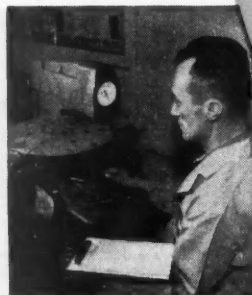
IT IS DURABLE IT IS LIGHT IT CARRIES NO
GREAT PREMIUM PRICE IT INCREASES THE PAY LOAD

KENTUCKY MANUFACTURING COMPANY R. C. Tway Company, Incorporated, Owner
2601 SOUTH THIRD STREET, LOUISVILLE 8, KENTUCKY

Balanced, forged steel hubs, machined to close tolerances for correct shaft fit.



Heat treated center plates, Rockwell tested, minimize tearouts, dishing.



Run-out checked to original manufacturer's specifications on plate O. D., guards against drag.



Finished plate, dynamically balanced to manufacturer's limits. Insures vibration-free performance.



Final inspection, before packaging and shipping completes quality control cycle.



Rigid Quality Control

Cuts your Operating Costs when you install...



VELVETOUCH All-Metal Clutch Plates

At every step in production, Velvetouch clutch plates are precision checked...to cut your maintenance costs. They're dynamically balanced to minimize vibration...they're tested for run-out to eliminate drag...and they're checked to micro tolerances that insure extra miles of trouble-free driving. Couple this rigid inspection with Velvetouch's patented all-metal construction and heavy duty design, and you have quality clutch plates that will keep your trucks out of the shop... and on the road. Send for details today.

THE S. K. WELLMAN CO. WAREHOUSING CENTERS

ATLANTA—119 14th Street, N. E.
Atlanta 5, Georgia

CHICAGO—2800 South Parkway,
Chicago 16, Illinois

CLEVELAND—1392 East 51st St.,
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DALLAS—3407 Main Street,
Dallas 1, Texas

LOS ANGELES—1110 S. Hope
Street, Los Angeles 15, Calif.

PHILADELPHIA—87 E. Montana
Street, Philadelphia 19, Pa.

PORTLAND—636 N.W. 10th Ave.,
Portland 9, Oregon

SAN FRANCISCO—424 Bryant
Street, San Francisco, 7 Calif.

TORONTO, ONTARIO
The S. K. Wellman Co. of Canada, Ltd., 2638 Dufferin St.

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Chicago 3, Ill., U. S. A.

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Washington 5, D. C.

Velvetouch

THE S. K. WELLMAN CO. • 1374 E. 51st ST • CLEVELAND 3, OHIO

over 25
years of service

1924-1951

RACKS, Stock, Tire, Tool—continued

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown." (Tire.)
 Berger Mfg. Div., Republic Steel Corp., 1033 Belden Ave., N. E., Canton 5, Ohio.
 Brown Engineering Co., 126 N. Third St., Reading, Pa. (Bar stock.)
 Durlach Can & Iron Works, 174 Seventh St., Brooklyn 15, N. Y.
 Economy Engineering Co., 4511 W. Lake St., Chicago 24, Ill. (Barrel.)
 Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
 Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM."
 Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.

International Equipment Co., 9 Carlton St., Buffalo 3, N. Y.
 Kirapel Industries, Inc., 300 Main St., Orange, N. J.
 Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. "Lee Rollraz." (Portable tire.)
 Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Sta., Boston, Mass. "Load Master."
 Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
 Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
 Manufacturing Equip. & Engrg. Co., 553 Waverly St., Framingham, Mass. "Meeco."
 Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. "MHS."

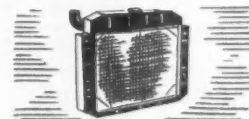
Metal Industries, Inc., P.-O. Box 945, Youngstown, Ohio. "Jambor."
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J. (Barrel and drum.)
 Unistrut Products Co., 1015 Washington Blvd., Chicago 7, Ill. (Framing.)

RADIATOR COVERS, See Covers, Radiator Grille

RADIATOR GRILLES, See Grilles, Radiator

RADIATOR SHUTTERS, See Shutters, Radiator

RADIATORS, Engine Cooling



Auto Radiator Mfg Co., 2901 Indiana Ave., Chicago, Ill. "Eureka."
 Blackstone Corp., 1088 Allen St., Jamestown, N. Y.
 Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill. "Excel," "Marvel."
 Fedders-Quigan Corp. Co., 57 Tonawanda St., Buffalo 7, N. Y.
 G & O Mfg. Co., 133 Winchester Ave., New Haven, Conn.
 General Radiator Co., Marion, Ill.
 Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
 Kramer Auto Radiator Corp., 210 W. 65th St., New York 23, N. Y.
 Long Mfg. Div. Borg-Warner Corp., 12501 Duquindre St., Detroit, Mich.
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
 Modine Mfg. Co., 1500 De Koven Ave., Racine, Wis.
 Perfex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wis.
 Yates-American Machine Co., Beloit, Wis.
 Young Radiator Co., 709 S. Marquette St., Racine, Wis.

RADIOS, Two-Way

Bendix Radio Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md.
 Communications Co., 300 Greco Ave., Coral Gables 34, Fla. "Comco."
 General Electric Co., Syracuse, N. Y.
 Motorola, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
 Radio Corp. of America, Mobile Communications Section, Engineering Products Dept., Camden, N. J.
 Raytheon Mfg. Co., 60 E. 42nd St., New York 17, N. Y.

RADIOS, Vehicle (Receivers)

Automatic Radio Mfg. Co., 122 Brookline Ave., Boston, Mass.
 Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md. (Custom built.)
 Delco Radio Div., General Motors Corp., Kokomo, Ind.
 Motorola, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
 Philco Corp., Industrial Radio Div., Tioga & C Sts., Philadelphia 34, Pa.

RAILS, Rub (Pressed Steel)

Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
 Cutler Metal Products Co., 1029 Line St., Camden, N. J.
 Hart Pressed Steel Corp., 3306 Hammond Ave., Elkhart, Ind.
 Kirk & Blum Mfg. Co., 3119 Forrer St., Cincinnati 9, Ohio.
 Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.

RAMPS, Truck Loading

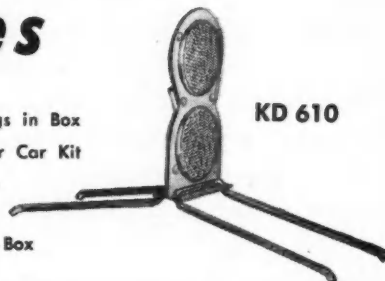
Christensen Co., Wm., Sherman St. & P Railway, York, Pa. (Adjustable.)
 Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Hydraulic.)
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J. "Make-It-Evener." (Hydraulic.)

for greater safety



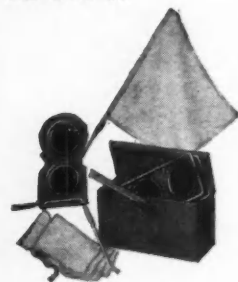
reflector flares

- KD 610-2F** Two Flares . . . Two Flags in Box
- KD 610-2P** Two Flares . . . Passenger Car Kit
- KD 610-3** Three Flares in Box
- KD 610-3F** Three Flares . . . Three Flags in Box



KD 610

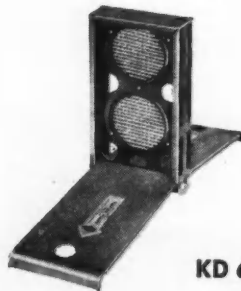
KD 610-3F



KD 610 with 3" genuine Stimsonite No. 12-A red plastic reflectors, is a miracle of light reflection . . . with wide range visibility exceeding ICC and SAE requirements. Heavy steel legs that grip pavements telescope to permit easy packing in small container. Built-in flag holders at 30° angle give greater visibility during daytime use. Packed with or without danger flags in strong metal box which may be padlocked for safe keeping. Flares and boxes finished with durable baked Danger Red enamel. **KD 610 Reflector Flares are competitively priced.**

KD 609 Heavy Duty Triflex Saftee Flare . . . of heavy gauge steel . . . constructed to hold danger flag . . . Red baked enamel for tough service . . . compact . . . folds like a camera when not in use . . . bracket for handy mounting on vehicle . . . positive protection during emergencies.

● **K-D** manufactures a Complete Line of electric, reflector and kerosene flares, danger flags and other safety products.



KD 609

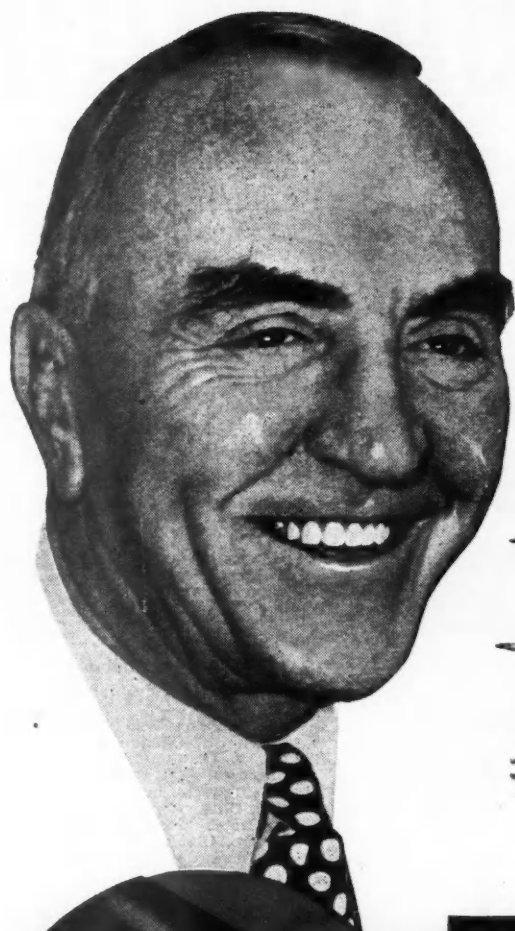
K-D LAMP COMPANY

1910 ELM STREET

CINCINNATI 10, OHIO

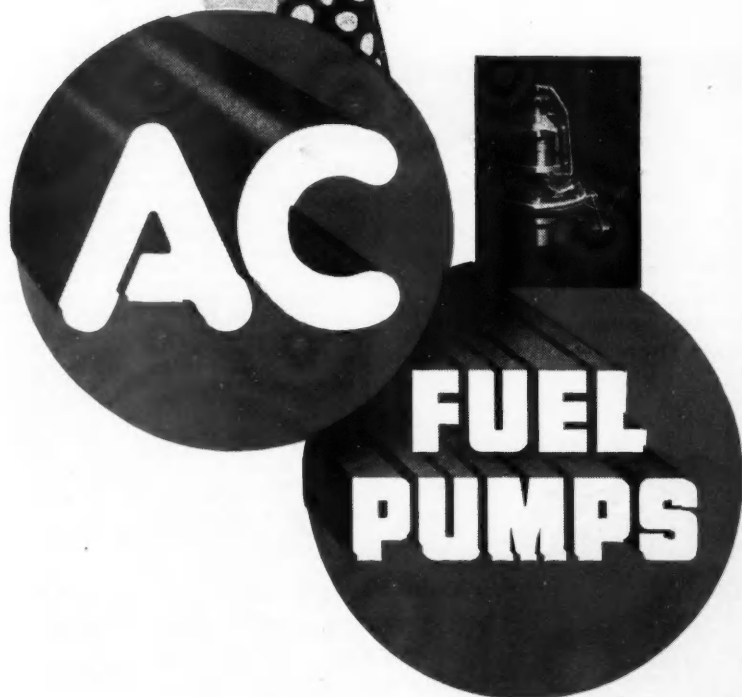
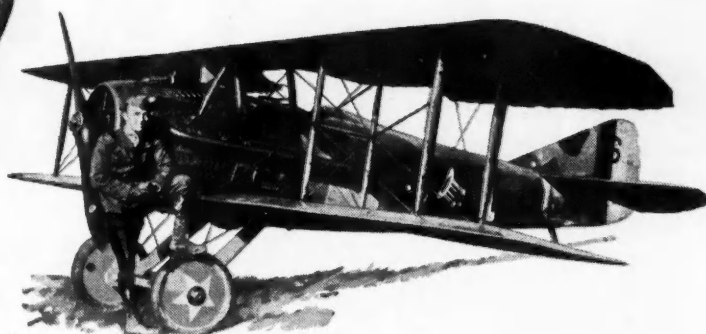


There's Always a **FIRST**



Captain "Eddie" Rickenbacker

Captain "Eddie" Rickenbacker, ace of aces, ranked first among all aerial combat fliers in World War I by downing more enemy planes than any other American flier. He continued his heroic work in World War II, surviving 23 torture-filled days on a life raft in the South Pacific while on special assignment for the Secretary of War. For the past eighteen years he has been the active head of Eastern Air Lines, one of the world's most successfully operated airlines.



● AC became the "Ace" of the fuel pump industry by originating the fuel pump, 24 years ago. It still is.

● More than 100,000,000 AC Fuel Pumps have been built.

● More than 40,000,000 are in daily use.

● More than 90% of the gasoline-powered vehicles now in service were factory-equipped with AC's.

● No other important automotive unit has enjoyed the overwhelming preference accorded the AC Fuel Pump, over so many years.

AC SPARK PLUG DIVISION
GENERAL MOTORS CORPORATION



America's **FIRST** and **FINEST** Fuel Pumps

RAMPS, Truck Loading—continued

Rowe Methods, Inc., 1743 E. 25th St., Cleveland 14, Ohio. "Adjust-A-Dock," "Adjust-A-Truck." (Electric hydraulic.)
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind. (Hydraulic.)

RAMS, Hydraulic

American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich. "Ausco."
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power."
Helm-Werner Corp., 1200 National Ave., Waukesha, Wis. "Power Plus."
Livingston Mfg. Co., 8438 Otis St., South Gate, Cal.

Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill. (Hydraulic remote control.)
Porter, Inc., H. K., 74 Foley St., Somerville 43 Mass. "Porter-Ferguson." (Hydraulic remote control.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Hydra-Pak," "Snap-On."
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."
Sunset Hydraulic Co., 16825 S. Broadway, Gardeau, Calif. "Amazon," "Amazon Hydra-Pull," "Hydra-Pull Mite."
Templeton Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. "Simplex Remotrol."

REAMERS, Cylinder Ridge

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."

All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif.
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Evans Reamer & Machine Co., New Lexington, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., South St., New Britain, Conn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

REAMERS, Main Bearing and Connecting Rod

Keystone Reamer & Tool Co., Millersburg, Pa.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
Taft-Peirce Mfg. Co., 32 Mechanic Ave., Woonsocket, R. I.
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

REAMERS, Power Drive

Evans Reamer & Machine Co., New Lexington, Ohio.
Greaves Machine Tool Co., Eastern Ave. & Hazen St., Cincinnati, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. "U. S."
Van Norman Co., 3640 Main St., Springfield 7, Mass. "Reamo."

REAMERS (Solid Expansion and Adjustable)

Alvord-Polk Tool Co., 110 Gearhart St., Millersburg, Pa. "Alpo."
Arrow Tool & Reamer Co., 418 Livernois Ave., Detroit 9, Mich. (Solid.)
Barber-Colman Co., 1300 Rock St., Rockford, Ill. (Solid and adjustable.)
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Besly & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Chadwick & Trefethen, 32 Bow St., Portsmouth, N. H. "Critchley," "C & T."
Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. (Expansion.)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. "Quick-Set," "Peerless," "Spirex."
Cogsdill Twist Drill Co., 12950 W. Eight Mile Rd., Detroit 21, Mich.
Davis Boring Tool Div. of Larkin Giddings & Lewis Machine Tool Co., 142 Doty St., Fond du Lac, Wis.
Detroit Reamer & Tool Co., 2830 E. Seven Mile Road, Detroit 12, Mich. "D.R.&T." (Solid.)
Do All Co., 254 N. Laurel Ave., Des Plaines, Ill.
Evans Reamer & Machine Co., New Lexington, Ohio. (Expansion.)
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "G T D-Ampco." (Solid and expansion.)
Hill Nut Co., 2620 W. Flourney St., Chicago 12, Ill.
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. "B-Ver." (Expansion and adjustable.)
Johnson Co., Eric S., 230 E. Ohio St., Chicago 11, Ill. "Carl Larsson." (Adjustable; imported.)
Kelly Reamer Co., 3775 Ridge Rd., Cleveland, Ohio. (Adjustable.)
Keystone Reamer & Tool Co., Millersburg, Pa.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Adjustable.)
McCrosky Tool Corp., S. Main St., Meadville, Pa. "Super." (Adjustable.)

WESCO

TIRE CHAINS

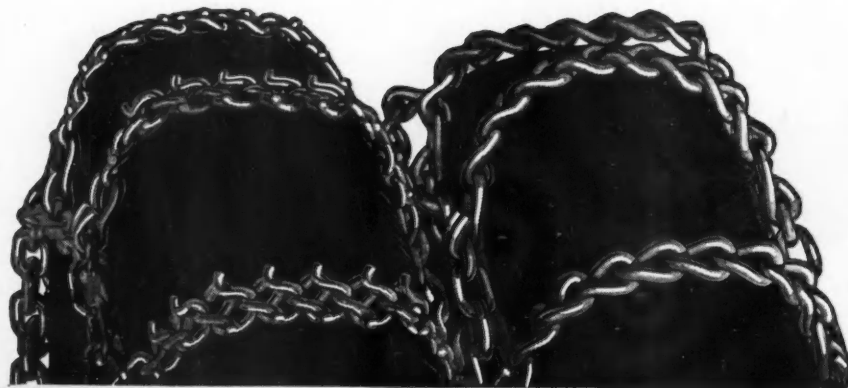
CHAINS DO MORE THAN PREVENT ACCIDENTS!

A half hour's delay will cost more than a set of chains. Chains for all vehicles is practical insurance—not only in lowering liability but to assure that schedules will be kept—not only that in all weather your vehicles will come thru, but that you will deliver *on time*.

Select chains as you do other insurance for absolute dependability. Specify WESCO Chains for top non-skid quality, proven strength and extra wear. There are no finer chains made.



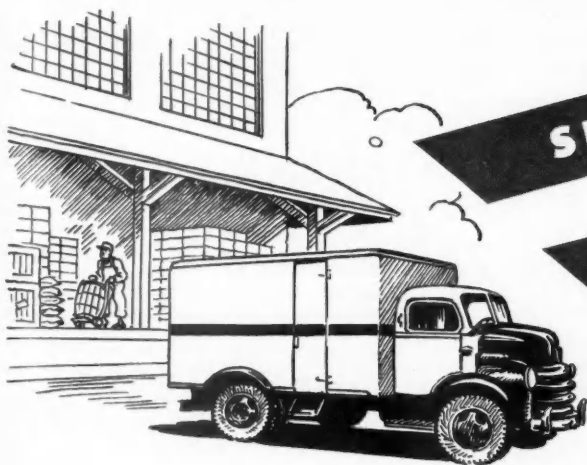
Write for new
Catalog Sheets



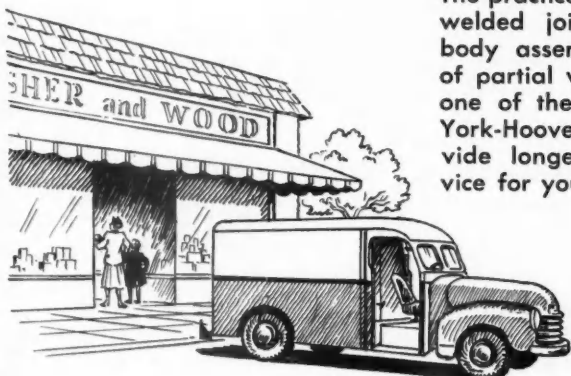
WESTERN CHAIN COMPANY
1801 W. BELMONT AVE. CHICAGO 13, ILLINOIS

YORK-HOOVER BODIES

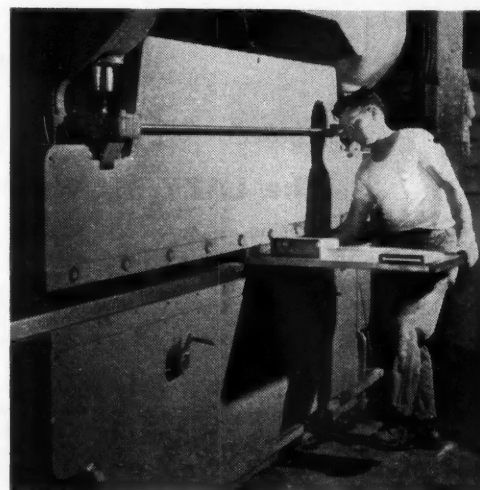
SERVE YOU BETTER
... AND LONGER



The practice of completely welded joints in major body assemblies instead of partial welding is just one of the reasons why York-Hoover bodies provide longer, better service for you.



Skillful press and power brake operators, together with careful inspection before and after fabrication assures a product that represents a better buy.



We invite you to consult us regarding your body service problems. We will be glad to provide you with complete information, together with earliest possible delivery dates.



York-Hoover

YORK, PENNSYLVANIA

Corporation

Body Division

REAMERS (Solid Expansion and Adjustable)—continued

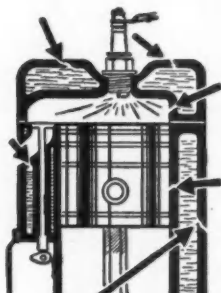
Madison Mfg. Co., 1713 7th St., Muskegon, Mich. (Adjustable.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
National Twist Drill & Tool Co., Rochester, Mich. (Solid.)
New Britain Machine Co., South St., New Britain, Conn.
O. K. Tool Co., Milford, N. H. (Adjustable.)
Pratt & Whitney Div., Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich.

Reasor Mfg. Co., 18th & Indiana Ave., St. Charles, Ill. (Expansion.)
Reiff & Nestor Co., Lykens, Pa.
Reltool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio. "Shield Brand."
Staples Tool Co., 2851 Massachusetts Ave., Cincinnati 25, Ohio. (Carbide tipped, solid and expansion.)
Taft-Peirce Mfg. Co., 32 Mechanic Ave., Woonsocket, R. I.
Tungsten-Carbide Tool Co., 26250 W. 7-Mile Rd., Detroit 19, Mich.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt. (Solid and expansion.)

Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Solid.)
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Wendt-Sonis Co., Hannibal, Mo. "W-3." (Solid carbide tipped.)
Wesson Co., 12200 Woodward Heights Blvd., Ferndale 20, Mich.
Wetmore Reamer Co., 420 N. 27th St., Milwaukee 8, Wis. (Adjustable.)
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. "Hercules." (Solid and expansion.)
Wiley's Carbide Tool Co., 1340 W. Verner Highway, Detroit 1, Mich.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

LUSCO PLASTIC SEAL

The AMAZING CHEMICAL containing SEALIUM
(an exclusive product of LUSCO, Inc.)

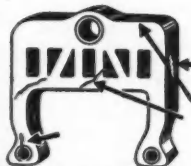


Repairs all kinds of cracks in motor heads and blocks including **CRACKS DIRECTLY INTO THE COMBUSTION CHAMBER**
(available in 'HEAVY DUTY' \$3.00 per pint list)

Repairs radiator leaks just as effectively or more so and just as permanently as a solder job. (available in 8-oz. cans \$1.00 list)

Works perfectly in water, alcohol and glycol. Is an excellent cleaner as well as a phenomenal sealer.

Makes possible amazing leak repairs in high pressure industrial boilers as well as low pressure steam heating boilers. (available in one gal. containers 'Heavy Duty' or special Heavy Duty)



LUSCO Seal-Weil CUBES (18 years in the market)
The World's best low priced radiator seal at 30¢ per CUBE list. May be sold with "GUARANTEED 90 DAY SERVICE." The conditioner and leak-proofing material that should be included with the liquid in every motor circulating system. Makes a motor run better. Insures anti-freeze installations.

The LAZY MAN'S POLISH

LUSCO-vize
The World's best standard Polish for AUTOS — FURNITURE — WINDOWS (and all smooth finishes) "CLEANS TO THE ORIGINAL FINISH"

SIL-vize
The SUPER POLISH containing 6% SILICONE (water-emulsified) Cleans and "Siliconizes" car finishes for one year lasting qualities

These are our claims for The LAZY MAN'S POLISH, either LUSCO-vize or SIL-vize. It is the fastest and easiest product to use and gives super results. It may be applied in brilliant sunlight, over wet surfaces, over the entire surface before wiping off, does not stick, streak, or fingermark. Works perfectly on Duco, Paint, Enamel, Synthetics, Varnish and Chrome.

FILL IN COUPON BELOW



LUSCO, Inc., 5915 Bonna Ave., Cleveland 3, Ohio
Enclosed is my letter head (or bill head). Please tell me how I can secure three cans FREE for trial. I am interested in:

☐ LUSCO PLASTIC SEAL for
☐ The LAZY MAN'S POLISH
☐ Please RUSH me C.O.D. Parcel Post prepaid three boxes LUSCO Seal-Weil CUBES\$6.48
Name
Position (please print)

REAMERS, VALVE SEAT, See Tools, Valve Seat Refinishing

RECLAIMERS, Crankcase Oil

Burt Mfg. Co., 44 E. South St., Akron 11, O.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y. "Hilco."
Kidde & Co., Walter, Youngstown Miller Div., 675 Main St., Belleville, N. J. "Youngstown Miller."
Sparkler Mfg. Co., Lake St., Mundelein, Ill.

RECORDERS, Vehicle Movement

Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill.
Knopf Instrument Co., 250 Culver Ave., Jersey City 5, N. J. "Pe Ka Travel Log."
Sangamo Electric Co., Springfield, Ill. "Sangamo Tachograph." (Sole distributors, Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.)



Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio. "Servis."
United States Taximeter Co., 514 W. 64th St., New York 19, N. Y. "Ustelock," "Ustecograph," "Ustometers."
Wagner Electric Corp., 6476 Plymouth Ave., St. Louis 14, Mo. "Tachograph."

REFACERS, Valve (Electric)

Albertson & Co., 3100 Lowell Ave., Sioux City, Ia. "Sioux."
Black & Decker Mfg. Co., 629 Pennysylvania Ave., Towson 4, Md.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Evans Reamer & Machine Co., New Lexington, Ohio.
Independent Pneumatic Tool Co., Aurora, Ill. "Thor."
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D. "Knock Out."
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
S & D Engineering Co., 2540 N. Naomi St., Glendale, Calif.
Skilsaw Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Valve."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

REFLECTIVE MATERIALS

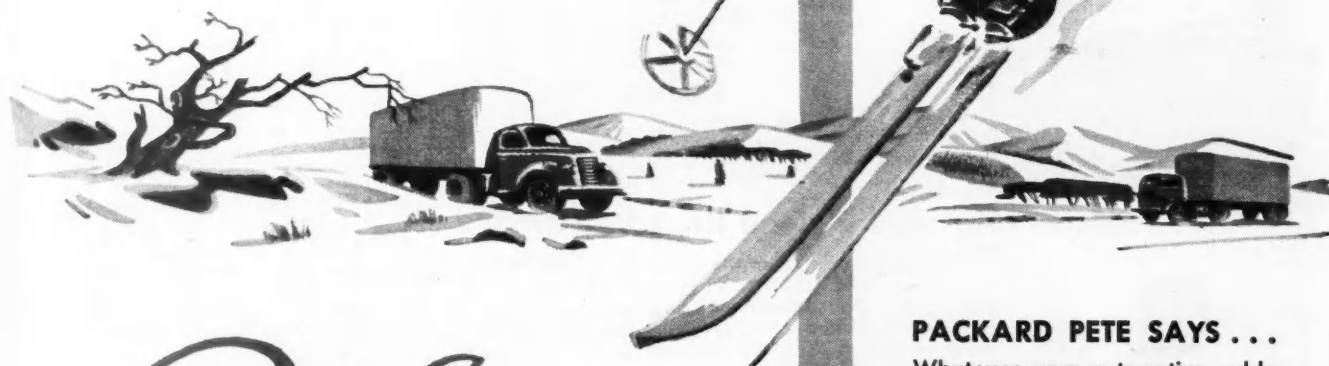
By-Buck Co., 4314 W. Pico Blvd., Los Angeles 6, Calif.

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Top performance over the miles and over the years. That is the record of Packard automotive cable. And it is a record made even more impressive by the fact that Packard automotive cable is used as original equipment on more cars, trucks and buses than any other make.

Moreover, Packard cable permits complete wiring standardization. For example Packard 440 and Lac-Kard high tension cables are designed to meet the requirements of *all* vehicles ... designed to deliver superior performance in every make and model vehicle on the road.

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REFLECTIVE MATERIALS—continued

Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn. "Scotchlite."
Prismo Safety Corp., Huntingdon, Pa.

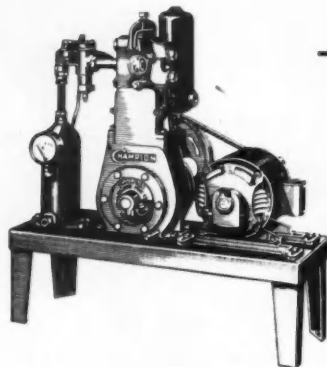
REFLECTORS, Safety

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. "King Bee Hy-Power," "King Bee Foto-Ray."
Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass.
Anthes Force Oiler Co., Ft. Madison, Iowa.
Arrow Safety Device Co., Mt. Holly, N. J. "Arrowlite."
Bolser Corp., S. Main St., Cedar Falls, Iowa. (For trucks.)

Cole Automotive Products Co., 2705 S. Michigan Ave., Chicago 16, Ill. (For trucks, trailers and buses.)
Diets Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (For trucks.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Tiger Ey."
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Grote Mfg. Co., Lafayette & Grandview Aves., Belleville, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind. "Stimsonite."
Johnson Glass Co., 5248 Elston Ave., Chicago 30, Ill.

K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S." (Red, green or amber reflecting glass.)
Miro-Flex Co., 1824 E. Second St., Wichita 7, Kan. "Miro-Flare."
Monroe-Acme Co., 215 N. Aberdeen St., Chicago, Ill. "Norton," "Royal."
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill. (For trucks.)
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
Snow Plastics Corp., 5840 S. Oakley Ave., Chicago 36, Ill. "Cragg."
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich.
Speaker Corp., J. W. 3059 N. Weil St., Milwaukee 12, Wis.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
U. S. Tool & Mfg. Co., 1528 Armitage Ave., Chicago 22, Ill. "Eagle Brand."
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

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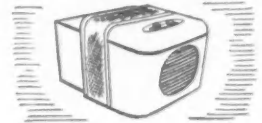
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REFRIGERATING UNITS, Truck and Trailer

Air Induction Corp., 122 W. 30th St., New York 1, N. Y.
American Mfg. Co., P. O. Box 989, Montgomery 2, Ala. "Arctic Traveler." (Gasoline and electric driven.)
Bowser, Inc., Terryville, Conn. "Bowser Kold Hold."
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
Carrier Corp., 300 S. Keddis St., Syracuse 1, N. Y.
Coldmobile Co., 1633 Bagley Ave., Detroit 16, Mich.



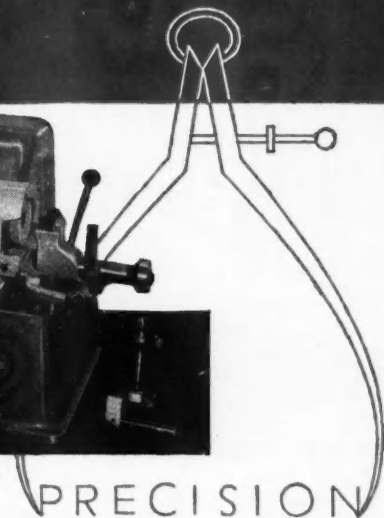
Dole Refrigerating Co., 5920 N. Pulaski Rd., Chicago, Ill. (Vacuum cold plate evaporators.)
Dorsey Trailers, Inc., Elba, Ala. "Dorsey Serv-Cold." (Gasoline motor driven, for trailers.)
Dromgold & Glenn, Div. of Union Asbestos & Rubber Co., 332 S. Michigan Ave., Chicago, Ill. "D. & G." (Produce; also combination water and dry ice.)
Dyna-Kold Corp., 3221 20th St., San Francisco 10, Calif.
Foster-Built Burkers, Inc., 757 W. Polk St., Chicago 7, Ill. (Dry ice.)
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Trail-Aire." (Trailer.)
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Dry ice.)
Industrial Manufacturing & Engineering Co., 3845 N. Ravenswood Ave., Chicago 13, Ill. "Coldjet," "BloKold," "Zone Control."
Kold Hold Mfg. Co., 620 E. Hazel St., Lansing 4, Mich.
Kold-Truk, Inc., St. Louis, Mo.
Lehigh Mfg. Co., Lancaster, Pa.
Marvel Industries, Inc., Sturgis, Mich. (Trailer.)
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y. "Frigid-Fin."
Tecumseh Products Co., Tecumseh, Mich. "Chieftain."
Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y. "Theurer Icefin."
U. S. Thermo Control Co., 44 S. 12th St., Minneapolis 4, Minn. "Thermo-King."

REGROOVERS, Tire

International Equipment Co., 9 Carlton St., Buffalo, N. Y. (Operated by vehicle engine.)
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. (Electrically heated.)
Mertens Mfg. Co., 1533 Hamilton Ave., Racine, Wis. (Electrically heated.)

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BE SATISFIED-**

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SIoux **PRECISION** **WET VALVE FACE** **GRINDING MACHINE**

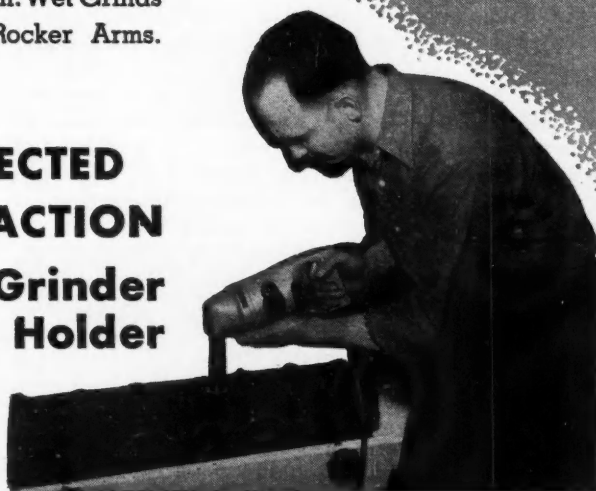
More Dollar Value Than Ever Before

Wet Grinding eliminates heat and distortion, producing finest finish and factory precision. Wet Grinds Valves, Valve Ends, Tappets and Rocker Arms.

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**Valve Seat Grinder
with Ball Bearing Holder**

Precision work in fast time with almost unbelievable speed is made possible by this valve seat grinder. Perfected dual action provides a controlled fine vibration for grinding accuracy and dispersion of cuttings—wheel mounted for full valve seat contact. Uniform finish all the way round is assured.



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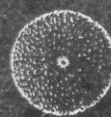
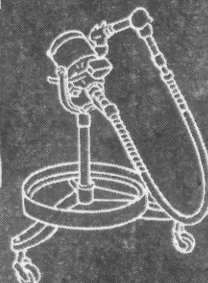
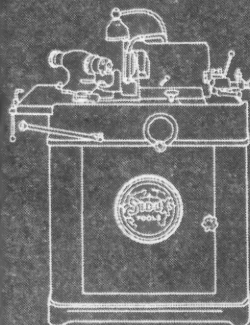
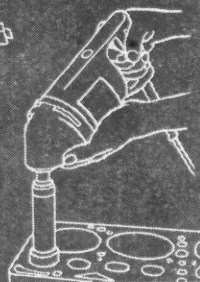
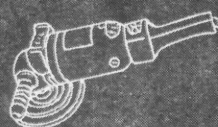
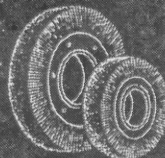
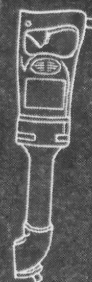
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ALBERTSON & CO., INC.



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REGROOVERS, Tire—continued

Peco Mfg. Co., 20 W. Berkley St., Philadelphia 33, Pa.
 Stackhouse, E. H., 219 N. 63rd St., Philadelphia 33, Pa. (Electrically heated.)
 Thompson & Sons, O. E., 400 River St., Ypsilanti, Mich. "Champion." (Electrically heated.)
 Van Tool, Inc., 139 N. 22nd St., Philadelphia 3, Pa. (Electrically heated.)

REGULATORS, Current and Voltage

American Bosch Corp., Springfield 7, Mich.
 American Motor Products Co., Fond du Lac, Wis. "Ampeco."
 Andrews Mfg. Co., 924 S. Thersa Ave., St. Louis 3, Mo.

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
 Delco-Remy Div., General Motors Corp., Anderson, Ind.
 Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
 Electric Auto-Lite Co., Toledo 1, Ohio.
 Electro Auto-Lite Co., Owen Dyneto Div., 1930 Park Ave., Syracuse, N. Y.
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
 Grant Storage Battery Co., 226 N. 2nd St., Minneapolis, Minn.
 Guaranteed Parts Co., Seneca Falls, N. Y.
 Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.

Leece-Neville Co., 5109 Hamilton Ave., Cleveland 14, Ohio.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
 National Ignition Mfg. Co., 521 W. 53rd St., New York 11, N. Y. "Nimco."
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
 Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Shurhit Products, Inc., Waukegan, Ill.
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
 "Blue Streak."
 Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

REGULATORS, Humidity (Paint Shop)

Bristol Co., Waterbury 91, Conn.
 Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
 Powers Regulator Co., 2733 Greenview Ave., Chicago, Ill.
 Standard Dry Kiln Co., P. O. Box 5708, Indianapolis 21, Ind.
 Tagliabue Instrument Div., Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."

RELAYS, Horn and Light

American Motor Products Co., Fond du Lac, Wis.
 Andrews Mfg. Co., 924 S. Thersa Ave., St. Louis 3, Mo.
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
 Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
 Delco-Remy Div., General Motors Corp., Anderson, Ind.
 Douglas Mfg. Co., Div. Kingston Products Co., Railroad St., Bronson, Mich. (Horn.)
 E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. (Horn.)
 Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 Guaranteed Parts Co., Seneca Falls, N. Y.
 Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
 Kem Mfg. Co., 20 Wagarow Rd., Fair Lawn, N. J.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 New York Coil Co., 42 Second Ave., Phoenixville, Pa.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
 Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
 Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, L. I., N. Y.
 "Blue Streak."
 Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Light.)
 Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Light.)

REMOVERS, OIL AND GREASE. See Solvents, Oil, Carbon and Grease Removing**REMOVERS, Paint, Enamel and Varnish**

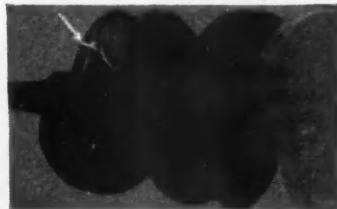
Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
 Aeroil Products Co., Wesley St. South, Hackensack, N. J. "Aeroil Auto-Salv."
 American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Solvent No. 3."
 American Varnish Co., 1138 N. Branch St., Chicago 22, Ill.



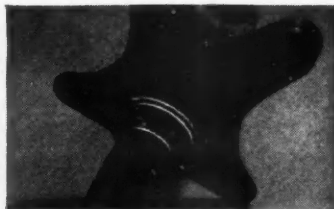
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THOSE MILES
 ...you may need them!
 Let
MAGNAFLUX-MAGNAGLO*
INSPECTION
 "spot" potential failures
 during overhaul

Fleet operators know that the trucks they own or can buy today may have to work harder and last longer than any in many years. More and more operators are therefore insisting upon Magnaflux-Magnaglo inspection during maintenance or overhaul. Detecting otherwise invisible defects in a part before it fails can prevent destruction of other parts or even the loss of entire units. Finding cracks while they are still small often allows for safe salvage of parts that are increasingly hard to get. Magnaflux-Magnaglo inspection is so reliable, fast and easy that it is routine in more shops every day!



Fluorescent Magnaglo indication, as discovered on crank throw at overhaul. Glowing line marks non-visible crack very near to final failure.



Magnaglo inspection of this steering spindle when front wheels were packed gives clear indication of otherwise invisible serious cracks that could cause failure.

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 Write for complete information on how Magnaflux can keep your equipment running longer—safer.

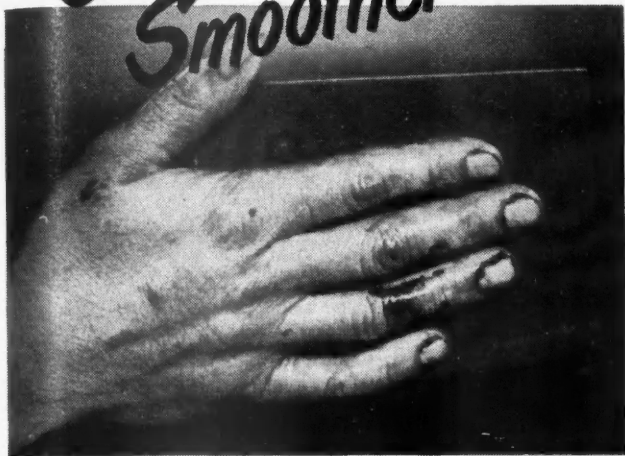
*Magnaflux-Magnaglo® Trade Marks of Magnaflux Corporation applied to its equipment and materials for magnetic particle inspection.

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with SPEED-WET DURITE® PAPER sheets. Resin bond is moisture resistant. Use with water or other lubricant for finest finishes.

Feather-edge it Finer



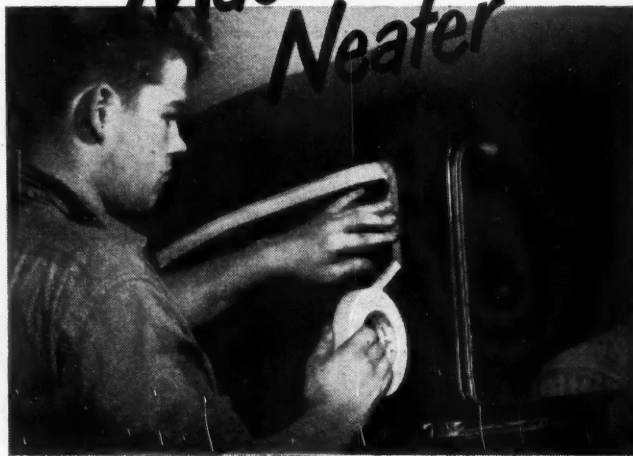
It's a quick job with the BEHR-DISKER Sanding Pad Assembly—a soft, high flexible, wool pile pad for use with paper or cloth discs on portable sanders.

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BEHR-CAT WEATHERSTRIP ADHESIVE (types for light and dark colored cars) sticks tight, does a neat, sure job. Also TRIM CEMENT for repairing upholstery and fabric trims, GLASS and BODY SEALERS and BODY DEADENER and CAULKING CEMENTS.

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BEHR-CAT Tape is the quick, satisfactory answer to all masking jobs—on curves, corners, under forced-heat drying.

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- SHARPENING STONES
- PRESSURE-SENSITIVE TAPES

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REMOVERS, Paint, Enamel and Varnish
—continued

Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
 Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.
 Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. "Barco," "Klean Strip" & "Strip-X."
 Berry Bros., Inc., 211 Leib St., Detroit 7, Mich.
 Bownes Co., Frank, 805 Eastern Ave., Chelsea, Mass. "Modene."
 Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Broilite."
 Celeo Corp., 110 E. 42nd St., New York 17, N. Y.
 Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kaystrip." (Oil base paint.)

Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
 Curran Corp., Lawrence, Mass.
 Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill. "Kut-Kote."
 Delta Chemical Co., 407 Madison Ave., Memphis 1, Tenn.
 Detrex Corp., Box 501, Detroit 32, Mich. "Detrex," "Triad."
 Ditzler Color Div. of Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
 du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del.
 Dural Automotive Div., Berry Bros, Inc., 211 Leib St., Detroit 7, Mich.
 Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "70 Stripper." (Hot.)

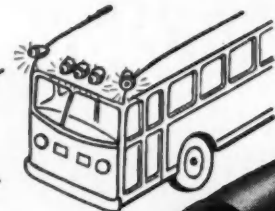
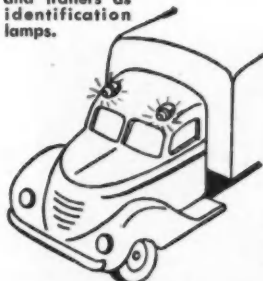
Helper Paint Removing Service, Inc., Cleveland, Ohio.
 Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro."
 J. P. Mfg. Co., 330 E. Front St., Youngstown 3, Ohio.
 Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
 Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
 Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Mirac."
 Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
 Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Superwet." (Paint and varnish.)
 Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "Remuvol."
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa. "Pennsalt."
 Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer-Flo."
 Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y. "Expedite."
 Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul No. 23."
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Five-Star."
 Solrun Services Inc., 49 N. Second St., Philadelphia 6, Pa. "Solv," "Vaposolv," "Nasolv."
 Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Klensa."
 Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Stripper," "Turco Paint-Gon."
 V. E. P. Co., 400 E. Lafayette Ave., Detroit 26, Mich. "Veco."
 Wilson-Imperial Co., 115 Chestnut St., Newark, N. J. "Imperial." (Water rinsable.)

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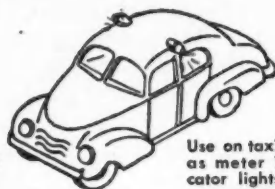
with *Speaker* TRUCK LAMPS

★ JETLINED ROCKET-LITE

Mount on trucks and trailers as identification lamps.



Attach to busses as identification lamps.



Use on taxicabs as meter indicator lights.



Speaker Truck Directional Signals

Heavy duty lifetime switch. Built-in indicator light. Installs on any diameter steering column — 1 1/2" to 2 1/2". For new and old trucks.



Sturdy steel lamps — bracket or flush mounting. Red or amber fade-proof glass lenses will not pit by sand blasting. Brilliantly visible day and night. Meet all SAE-ICC specifications. State approved. Black enameled. Switch and lamps in kits, or individually; 6 or 12 volt.

The really modern marker light, now chalking up new sales records. New-as-tomorrow appearance matches trend toward streamlined styling of commercial vehicles. Advanced design of base conforms to any sloping vehicle top. Meet SAE-ICC specifications; state approved.

Speaker Jetlined Rocket Lites mount individually, in pairs, or clusters of 3 or 5, according to state requirements. Mount on cab or trailer corners for two-way illumination. High-lustre finish with black trim, black enamel finish with silver trim. 2 1/2" beehive glass lens cannot pit or fade. Rubber mounting gasket prevents water seepage . . . cushions vibration.

Speaker Truck Lamps are distributed through Leading Automotive Wholesalers

J. W. SPEAKER CORPORATION 3059 N. Weil Street, Milwaukee, Wis.

**RESURFACERS, Floor**

Monroe Co., Inc., 10703 Quebec Ave., Cleveland 6, Ohio.
 Stonehard Co., 1306 Spring Garden St., Philadelphia 23, Pa. "Stonhard Resurfacer," "Stonplastic," "Stonpach."

RETAINERS, Oil and Grease

Acadia Div., Western Felt Works, 4055 Ogden Ave., Chicago 23, Ill. "Acadialseal." (Synthetic rubber.) "Acadia Resistofelt."
 Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
 Atlas Asbestos Co., North Wales, Pa. (Water pump.)
 Booth Felt Co., 476 19th St., Brooklyn 15, N. Y. (Felt.)
 Brummer Mfg. Corp., 1324 McKinley St., Chicago Heights, Ill.
 Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass. "Grafton."
 Copeland-Gibson Products Corp., 7451 W. Eight Mile Rd., Detroit, Mich. "C-G."
 Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro."
 Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
 Graphite Metallizing Corp., 1080 Nepperhan Ave., Yonkers 3, N. Y. "Graphalloy."
 Graton & Knight Co., 356 Franklin St., Worcester 4, Mass. (Synthetic, to order.)
 Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (For Ford, Chevrolet and Plymouth cars.)
 Krug Co., 8 Bond St., New York, N. Y.
 Lothrop Co., Frank B., 81 River St., South Acton, Mass. "Tiger." (For Ford and Chevrolet cars.)
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
 Michigan Leather Products Co., 6301 E. Lafayette St., Detroit 7, Mich. "Milpaco."
 National Motor Bearing Co., Redwood City, Calif. (Seals.)
 Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Oreo."
 Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio. (Synthetic rubber.)
 Pure Carbon Co., 441 Hall Ave., St. Marys, Pa. "Purebon."
 Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
 Rodie Rubber Corp., Allen Ave., New Brunswick, N. J.
 Simplex Piston Ring Mfg. Co., 3830 Kelley Ave., Cleveland 14, Ohio.

Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind. "Non-breakable."
Trautner Mfg. Co., 876 University Ave., St. Paul 4, Minn. (Rear axle, for Ford, Chevrolet, Plymouth, Dodge, DeSoto and Chrysler cars.)
Universal Oil-Seal Co., 34 W. Kennett Rd., Pontiac, Mich.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Victoprene."
Western Felt Works, 4085 Ogden Ave., Chicago 23, Ill. "Resistofelt." (Felt.)

RIMS, Wheel

Firestone Steel Products Co., 1200 Firestone Parkway, Akron 10, Ohio.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 8, Mich.

RINGS, Piston

Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. "Burd Graf-Flox."
Coil Piston Ring Co. of America, 4005 Washington Blvd., St. Louis 8, Mo.
Cord Piston Ring Mfg. Co., 1351 S. Olive St., Los Angeles 15, Calif.
Double Seal Ring Co., 2065 Montgomery St., Ft. Worth, Tex.
Gill Piston Ring Co., 6900 Cottage Grove Ave., Chicago 37, Ill.
Haling Co., 1061 First Ave., Rochester, Minn.
Hagliter Mfg. Co., 983 S. Raymond Ave., Pasadena, Calif. "Hanco."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich. "Steel-Vent."
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Kopper Co., Piston Ring Dept., Bush & Hamburg Sts., Baltimore 8, Md. "American Hammered."
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hico."
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis 10, Mo. "Leak Proof."
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Muskegon Piston Ring Co., Muskegon Div., Sixth & Alpha Sts., Muskegon, Mich.
Pacific Piston Ring Co., 1410 S. Los Angeles St., Los Angeles 15, Calif.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Richmond Ring Co., Souderton, Pa.
Roberts Mfg. Co., Rear 4104 Manchester St., St. Louis 10, Mo.



Royal Piston Ring Co., Bath, N. Y. "Ascot," "Everyday," "Ever Step," "Maidrite," "Royal."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind. "Non-Breakable." (Steel or bronze.)
Superior Piston Ring Co., 6425 Epworth Blvd., Detroit 10, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Diatrol," "Toledo First-Line."
Valve-Tite Piston Ring Co., Sheperd St., Toledo 1, Ohio. "Valv-Tite," "Fit-Well," "RX," "Universal," "Layr-Bilt," "Royal Crown."
Wausau Motor Parts Co., 1008 Harrison Blvd., Wausau, Wis. "Oilsavr," "Super Port Oil," "HT-100."
Wel-Ever Piston Ring Co., 1701 Spellbusch Ave., Toledo 1, Ohio. "Bevl Chani," "Flexo," "Super Flexo," "Speed," "Drain-Bac," "Multi-Comp," "Aroloy," "Welco," "Dual Compression," "Twin-Rail," "Aro Cast," "E. C. Slot," "Fast Flow," "Free Drain," "Flexo-Steel," "High Test Comp," "Improved Aroloy," "BC Flexo," "Welco-X."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

RINGS, Piston Expanders, See Expanders, Piston, Ring

RIVETERS

Bunell Machine & Tool Co., 1601 E. 23rd St., Cleveland 14, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Boyer." (Portable pneumatic.)
Chicago Rivet & Machine Co., 9608 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.)
Engineering & Research Corp., Riverdale, Md. (Mail address: P. O. Box 209, Hyattsville, Md.) "Ereco."
Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J.
Grant Mfg. & Machine Co., 90 Silliman Ave., Bridgeport 5, Conn.
Hanna Engineering Works, 1765 Elston Ave., Chicago 22, Ill. (Pneumatic and hydraulic)

Hannifin Corp., 1161 S. Kilbourn Ave., Chicago 24, Ill. "Hy-Power." (Hydraulic.)
High Speed Hammer Co., 313 Norton St., Rochester 5, N. Y. (High speed foot or air operated.)
Hydraulic Press Mfg. Co., Mount Gilead, Ohio. "H-P-M."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor." (Portable pneumatic.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Lempco Products, Inc., 5727 Dunham Rd., Bedford, Ohio.
National Rivet & Mfg. Co., Waupun, Wis.
Peun Rivet & Machine Co., Third & Huntingdon Sts., Philadelphia 33, Pa. (Pedestal and bench types.)
Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 10, Mich. (Portable pneumatic.)
Taylor & Fenn Co., 54 Arch St., Hartford 1, Conn.
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich. "Rivitor."

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SideSwing mounting bracket for panel, cowl or fender mounting

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Bright lustre finished, heavy-duty truck mirrors for use where vehicle appearance is important. Especially suited to floral, food and dry cleaning delivery trucks.

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For use where driver may operate vehicle from standing or seated position. Two 5" round aluminum mirror heads mounted on 8" T-shaped aluminum-enamel finished arm. Panel mounting bracket. An original equipment type mirror now supplied through jobbing channels.

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★ THEY'RE WEATHER TIGHT!
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★ THEY'RE PRICED RIGHT!

Here's a complete line of truck mirrors to fill every fleet requirement, from the smallest panel truck to the mighty cross-country carrier—engineered and built to cut image shimmy and blur—to provide clear, safer rear vision. Lightness of mirror head, strength of mirror arm and rigidity of mounting bracket practically eliminate normal vibration and whip. Speaker brings you practical design, utility and durability . . . a boon to driving safety.

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RIVETS, Blind

Cherry Rivet Co., 231 Winston St., Los Angeles 13, Calif. (Steel, aluminum and monel metal.)
 Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio. "Lok-Skru," "Lok-Rivet."
 du Pont de Nemours & Co., E. I., Explosives Dept., Wilmington 98, Del. (Explosive type.)
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Rivnut."
 Huck Mfg. Co., 2480 Bellevue Ave., Detroit 7, Mich. (Aluminum and steel.)
 South Chester Corp., 1418 South Penn Square, Philadelphia 2, Pa. "Southco."

RODS, CONNECTING, See Connecting Rods

RODS, Welding

Acme Electric Welder Co., 2618 Fruitland Ave., Los Angeles 58, Calif. "Acmeloy," "Hardaloy," "Stainaloy," "Superloy."
 Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
 Allis-Chalmers Mfg. Co., Milwaukee 1, Wis. Alloy Rods Co., W. Market St., York, Pa. "Acaloy," "Bronze-Arc," "Nickel-Arc," "Tool-Arc," "Wear-Arc," "Weld-Arc."
 All-State Welding Alloys Co., 273 Ferris Ave., White Plains, N. Y. "All-State," "Keen-weld."
 Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa.
 American Brass Co., 414 Meadow St., Waterbury 20, Conn. "Anaconda," "Tobin Bronze."

American Steel & Wire Co., Rockefeller Bldg., Cleveland 13, Ohio.
 Ampco Metal, Inc., 1747 S. 88th St., Milwaukee 16, Wis. "Ampco-Trode."
 Atlantic Steel Co., 16th & Mecalun St., Atlanta, Ga.
 Bridgeport Brass Co., 80 Grand St., Bridgeport 2, Conn.
 Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdex."
 Chicago Hardware Foundry Co., North Chicago, Ill. "Fuse-Well," "Moly."
 Dockson Corp., 3839 Wabash Ave., Detroit 3, Mich.
 Electric Arc Inc., 152 Jelliff Ave., Newark, N. J. "Newarc."
 Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
 Eutectic Welding Alloys Corp., 40-40 172nd St., Flushing, N. Y. "Cuttride," "Eutec Rod," "Eutectrodes," "Steeltec."
 Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
 Haynes Stellite, Div. Union Carbide & Carbon Corp., Kokomo, Ind.
 Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.
 International Nickel Co., 67 Wall St., New York 5, N. Y. "Ni-Rod."
 K-W Ignition Corp., 1767 E. 27th St., Cleveland, Ohio. (Tungsten.)
 Krembs & Co., 669 W. Ohio St., Chicago 10, Ill. "Kop-R-Arc."
 Lincoln Electric Co., Colt Rd. & Kirby Ave., Cleveland, Ohio. "Stable-Arc," "Stainweld A," "Lightweld," "Manganweld," "Aluminweld," "Fleetweld," "Hardweld," "Ferroweld," "Toolweld," "Abrasive," "Chromweld," "Aerisweld," "Wearweld," "Softweld," "Faceweld," "Surfaweld," "Shield-Arc," "Planeweld."
 Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld," ("Unionweld" coiled.)
 McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa. "McKay Rod."
 Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind. (Resistance.)
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y. "Murex."
 National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG," "Sureweld."
 Page Steel & Wire Div. of American Chain & Cable Co., Monessen, Pa.
 Revere Copper and Brass Inc., 230 Park Ave., N. Y. 17, N. Y. (Copper, brass and bronze.)
 Sight Feed Generator Co., West Alexandria, Ohio. "Rexarc."
 Smith Corp., A. A., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
 Speer Carbon Co., St. Marys, Pa. "A C Weld."
 Wall Colmonoy Corp., 19345 John R St., Detroit 3, Mich.
 Welding Equipment & Supply Co., 223 Leab St., Detroit 7, Mich. "Eureka." (Tool steel; alloy.)
 Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.

ROTORS, DISTRIBUTOR, See Parts, Magnets, Coil and Distributor

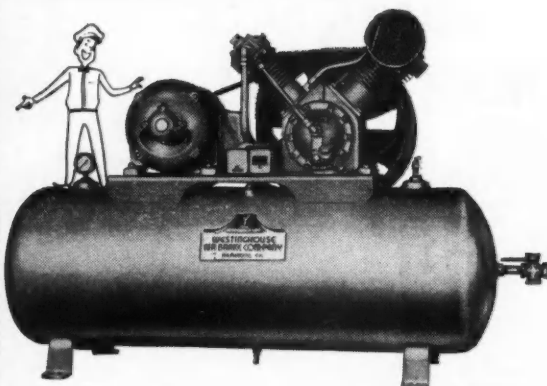
RUB-RAILS, PRESSED STEEL, See Rails, Rub (Pressed Steel)

RUST PREVENTIVES

Allied Research Products, Inc., 4004 E. Monument St., Baltimore 5, Md. "Iridite."
 Alox Corp., 70 Pine St., New York 5, N. Y.
 American Chemical Paint Co., Brookside Ave. & Reading R.R., Ambler, Pa. "Deoxidine," "Deoxylite," "Peroline," "Spray-Granodine," "Thermoil-Granodine," "Duridine" for ferrous metal.
 American Rust Proof Co., 8 W. 40th St., New York, N. Y. "Vatu."
 Anderson Oil Co., F. E., Quarry Lane, Portland, Conn. "Winsor."
 Angier Corp., 50 Fountain St., Framingham, Mass. "Angier VPI."
 Automotive Rubber Co., 8601 Epworth Blvd., Detroit 4, Mich. "Aroco."
 Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa.
 Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. "Barco."
 Bradford Oil Co., Boston Rd., Palmer, Mass. "Cedaroleum." (Preventing.)
 Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
 Bruce Products Corp., Howell, Mich. "Nor-Rust."

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With most machines, *no oil* means a repair job. When someone forgets to lubricate, the oil-starved unit runs itself right into the repair shop.

With the Westinghouse "Y" Compressor, it's a different and happier story. The "Y" gives you warning when the oil level is too low; it refuses to pump air. If the level drops during operation, the "Y" unloads. This S.O.S. lets you supply oil before scoring, seizing or other damage occurs.

This exclusive "No Oil—No Air" protection has saved countless repair bills for users . . . and it's only one of a parade of modern features you get in the Westinghouse "Y". Thermal overload protection—Starting Unloader . . . automatic pressure control . . . automotive-type pressure lubrication . . . multiple V-belt drive. Every one helps

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to give you a more dependable, economical air supply. And that's a big consideration *today*—that no one can afford to overlook!

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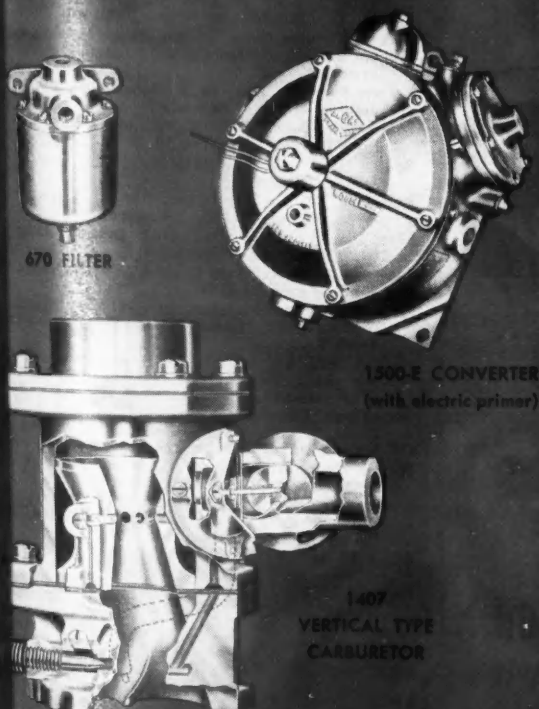
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Buchanan Chemical Co. C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Bu-Co."
 Cabot, Inc., Samuel, 141 Milk St., Boston 9, Mass. "Tasgon."
 Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Nutbuster."
 Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
 Celco Corp., 110 E. 42nd St., New York 17, N. Y.
 Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
 Chicago, Hydraulic Oil Co., 371 E. 116th St., Chicago 28, Ill. "Pennytrol."
 Cities Service Oil Co. (Pa.), 60 Wall Tower, New York 25, N. Y. "Anti-Corrode."
 Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."

Crystal Soap & Chemical Co., 6800 State Rd., Philadelphia 35, Pa.
 Dearborn Chemical Co., 310 S. Michigan Ave., Chicago 4, Ill. "No-Ox-ID."
 Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo. "Red-Skin."
 Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
 Edward Sales Co., 36 Bowne St., Flushing, N. Y. (Removing.)
 Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
 Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
 Freedom-Valvoline Oil Co., Third Ave. & Sixth St., Freedom, Pa.
 Globe Imperial Corp., 2025 Kishwaukee St., Rockford, Ill. "Plastic-Seal."
 Grapho Products, Inc., P. O. Box 300, Lawrence, Ind. "Pen-A-Trate."

Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
 Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Cosmoline," "Rus-Veto." (Preventing.)
 Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro," "So Kleann."
 Interchemical Corp., Finishes Div., 57 State St., Newark 1, N. J. "Protektol."
 Kano Laboratories, 75 E. Wacker Drive, Chicago 1, Ill. "Kano Microil."
 Kelly Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Beacon Brand," "Kelcote."
 K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
 Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
 Liquid Veneer Corp., Urban & Kehr Sta., Buffalo 11, N. Y. "Rust-Kill."
 Lion Oil Co., Lion Oil Bldg., El Dorado, Ark. "Nokorode."
 Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis. "Rench Aid." (For loosening rusty nuts, bolts, cylinder heads, etc.)
 Merchandise Mart, Plaza, Chicago 54, Ill.
 Mergraf Oil Products Co., P. O. Box 55, Northville, Mich. "Merseal."
 Mitchell-Bradford Chemical Co., 2446 Main St., Stratford, Conn. "Silco," "Witch-Dip," "Witch-Oil."
 Neilson Chemical Co., 6564 Benson St., Detroit 7, Mich. "Metalprep," "Rust Freev."
 Never Rust Mfg. Co., 616 Standish Rd., Teaneck, N. J. "Ne-Ver-Rust."
 Nox-Rust Chemical Corp., 2429 S. Halstead St., Chicago 8, Ill.
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich. "Bonderite," "Parco."
 Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio.
 Permatex Co., 1720 Ave. Y, Brooklyn 35, N.Y.
 Philadelphia Quartz Co., 1146 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa. "Rusticon." (Preventing.)
 Radiator Specialty Co., 1700 Dowd Rd., Charlotte 1, N. C. "Liquid Wrench." (For removing frozen joints, nuts, cylinder heads, tail pipes and mufflers.)
 Regal Air Corp., 318 W. 39th St., New York 18, N. Y. "Re Glo."
 Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Penetro 10-0-0."
 Rossaul Co., 170 Fifth Ave., New York 16, N. Y. "Rossaul Dextoxide."
 Rusticide Products Co., 3125 Perkins Ave., Cleveland, Ohio. "Rust-I-Cide."
 Rust-Oleum Corp., 2425 Oakton St., Evanston, Ill.
 Shell Oil Co., 50 W. 50th St., New York 23, N. Y. "Ensis."
 Socony-Vacuum Corp., 26 Broadway, New York 4, N. Y. "Mobilcote," "Mobil Rust-Proof." (Preventing.)
 Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Solusolv."
 Sonneborn Sons, Inc., L., Amalie Div., 300 Fourth Ave., New York 10, N. Y. "Amalie."
 Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Rustrem."
 Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill. "Stanorust."
 Stay-Tite Products Co., 3107 Detroit Ave., Cleveland, Ohio. "Rustgo."
 Steelcote Mfg. Co., 8418 Gratiot Ave., St. Louis 3, Mo.
 W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-Fend."
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Super-Kwick." (For removing rusty exhaust systems.)
 Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa. "Sure-Rite." (Rust solvent for aluminum cylinder heads, etc.)
 Wayne Chemical Products Co., Copeland Ave. & M. C. R. R., Detroit, Mich. "Protex."
 Whiting Leather & Belting Co., 9 Murray St., New York 7, N. Y. "Whiting Rustvoid," "Whiting Rust Cutter."
 Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill.
 Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis. "Tri-Flux."



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- ... provide increased safety for your men, your load, and your equipment.
- ... keep trucks on the road and out of the shop.
- ... increase the life of brake drums and linings.
- ... lengthen tire life.
- ... lower your cost per mile.

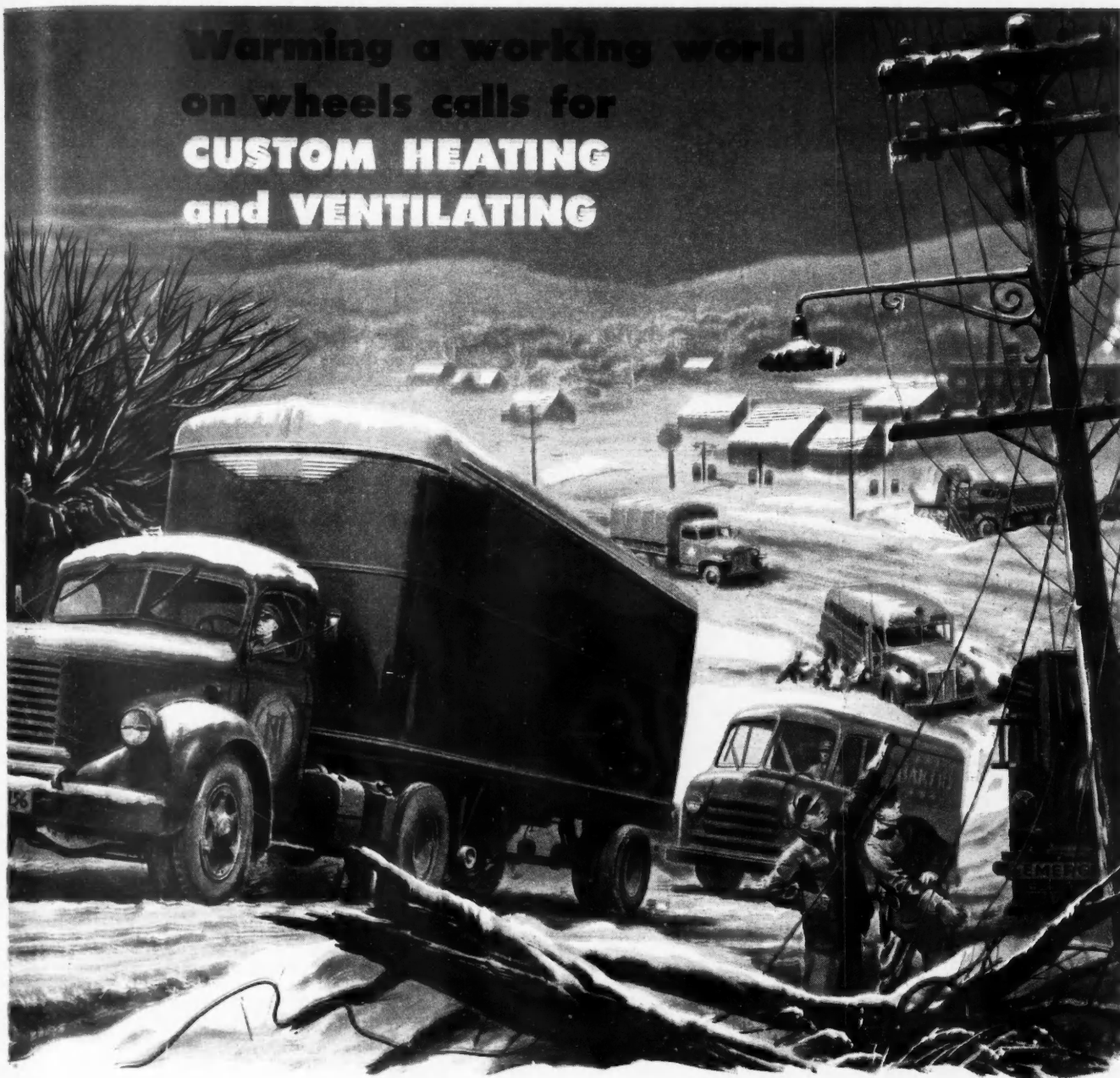
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Allube Corp., 928 Allen Ave., Glendale 1, Calif. "Ferr-O-Ban."

Warming a working world on wheels calls for **CUSTOM HEATING and VENTILATING**



Winter's icy fingers chill occupants of buses and trucks and endanger costly loads. Breaking their frigid grip calls for *custom* heating and ventilating—tailored to fit the particular vehicle, designed to warm the particular interior, engineered to utilize the particular engine heat.

For example: Door to door deliveries of fresh bakery bread suffered damage when low temperatures made textures tough. Evans *heating engineers* developed a heater particularly designed to produce a flood of warmth regardless of the opening and closing of truck doors for delivery. It protects delicate bread from damage. Evans' specialty is engineering fully efficient heat output from a perfectly balanced combination of Evanair fan, core, and sturdy heater motor. This engineering know-how produces exceptional performance.

Evans has successfully engineered tough jobs in school buses, snowplows, trailers, tanks, trucks, cargo planes, and homes. To solve problems in vehicle or shelter heating, consult *Heating & Ventilating Division, Evans Products Company, General Offices: Plymouth, Michigan. Plants: Plymouth, Mich.; Coos Bay, Ore.; Vancouver, B. C.*



EVANS

**ENGINEERS CUSTOM HEATING AND VENTILATING
FOR A WORKING WORLD ON WHEELS**

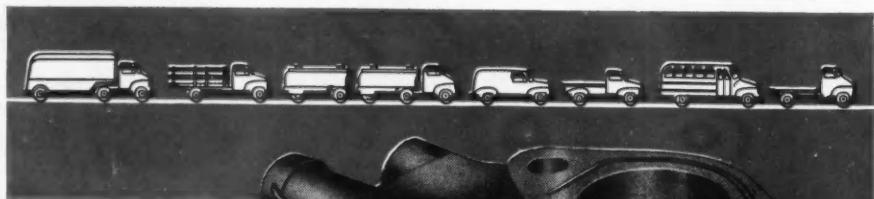


**RUST PREVENTIVES, Cooling System—
continued**

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite Rust-Stop."
American Sand-Banum Co., 9 Rockefeller Plaza, New York 20, N. Y. "Sand-Banum." (Colloidal tablets.)
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Butler Eng. Co., 2610 Russeau St., New Orleans 11, La. (Butler De-Scaler.)
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Rustbuster."
Champion Products, Inc., P. O. Box 291, Stephenville, Tex.

Chicago Hydraulic Oil Co., 371 E. 116th St., Chicago 28, Ill. "Rustgon."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Nor'Way Anti-Rust."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del. "No. 7."
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Floz-on Mfg. Co., Box 8566, Pittsburgh 20, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Homestead Valve Mfg. Co. (Hypresure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypresure Jenny."
Hood Refining Co., 21 N. Hamilton Ave., Greensburg, Pa.

Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City, N. Y.
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. "M-K Rustrite."
National Aluminate Corp., 6216 W. 66th Place, Chicago 38, Ill. "Nalco."
National Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Rustone."
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Permatex Co., 1720 Ave. Y, Brooklyn 35, N.Y.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Radiator Specialty Co., 1700 Dowd Rd., Charlotte 1, N. C. "Anti Rust."
Rust Master Chemical Co., 50 Creighton St., Boston, Mass.
Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Rusgo."
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Hydrotone."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Rad-Glo."
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa. "Sunoco."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Radox."
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."
Universal Chemists, 107 Northampton St., Boston, Mass. "Rust-Chek."
V-O Mfg. Co., 13245 Sherman Way, Hollywood, Calif.
Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa. "Sure-Rite."
Warner-Patterson Co., 920 S. Michigan Ave., Chicago 5, Ill.
Watts-Wagner Co., 123 W. 64th St., New York 23, N. Y. "Rust-Ex."
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
"X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y.
Zecol, Inc., 155 E. Kilbourn Ave., Milwaukee 1, Wis.



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IS LEGAL!**

Here is what was accomplished just by the installation of Handy Governors on the vehicles of 180 truck fleets. The saving on tires was found to be 22.6%, on engine repairs 32%, on fuel 13.5%, on lubricants 26%, on brake maintenance 29.2% and general maintenance 26%. Furthermore it reduced insurance 16% and cut the cost of accidents 37%.

In the face of war shortages which will certainly get progressively worse is there any better way to conserve equipment and at the same time make substantial dollar savings? This kind of hoarding is not only legal but it pays good dividends.

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CORPORATION**

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YPSILANTI



SAND (for Traction Sanders)

Keystone Granite Quarry, Old Zionville, Pa.

SANDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Aro Equipment Corp., Bryan, Ohio.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44 St., New York, N. Y. "Hicycle & Supercycle."
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Cummins Portable Tools, Div. Cummins Chicago Corp., 4740 W. Ravenswood Ave., Chicago 40, Ill.



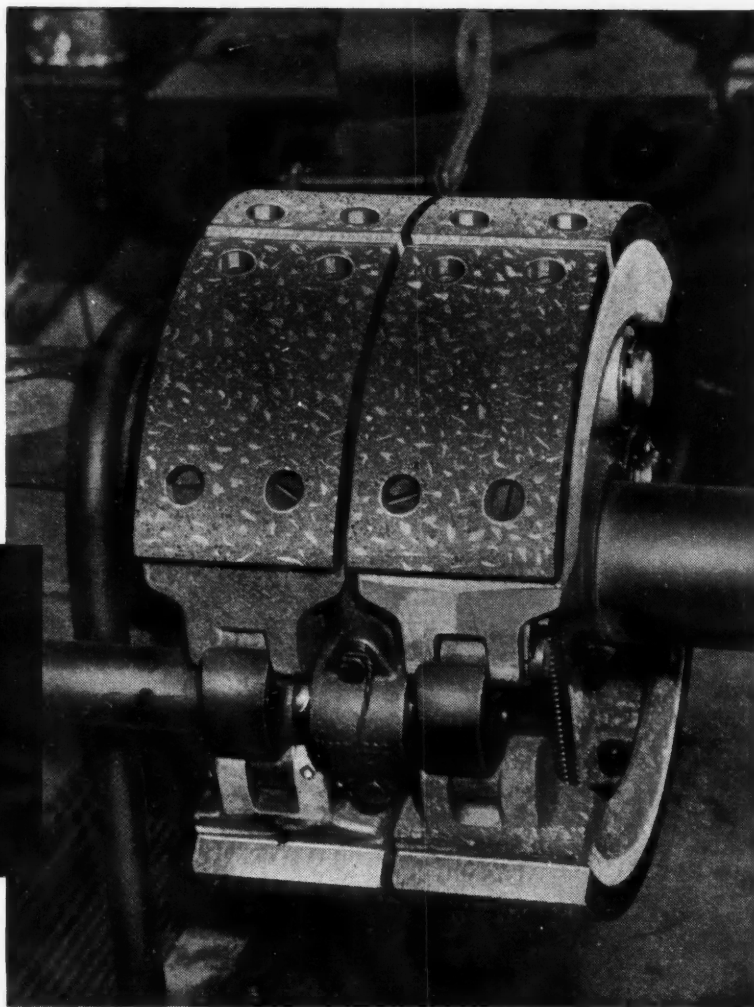
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich. "Easy." (Reciprocating.)
Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Motor-Sander."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Jones Motrola Corp., 132 Fairfield Ave., Stamford, Conn.

RAIN!
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MUD!
SLUSH!

Thermoid Brake Blocks can take it!

The worst driving conditions the weatherman can dream up make no difference to Thermoid Brake Blocks.

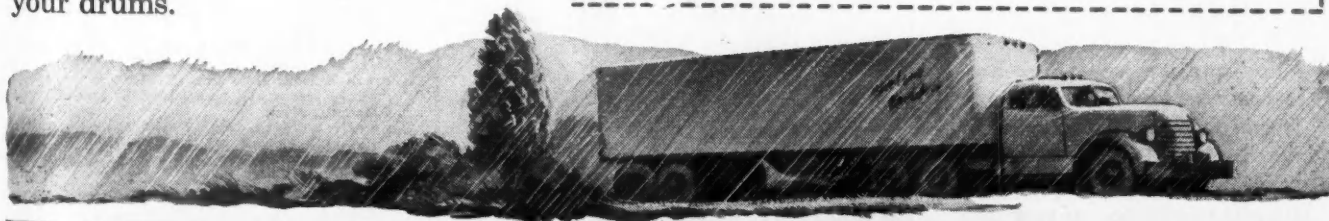
Throughout their long life they retain their original uniform friction, unaffected by slush, water, or the highest operating temperatures. Despite their rugged construction, Thermoid Brake Blocks do not score or wear down your drums.



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and recommend the right friction material for lowest cost-per-mile on your particular vehicles. No charge or obligation.

Ask your jobber to arrange for a survey. Or write us direct.



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the standard of precision processing in brake lining, brake blocks, hydraulic fluid, cylinder assemblies, hydraulic brake parts.

SANDERS, Portable Electric—continued

Lee Co., K. O., Congress at First Ave., S. E.,
Aberdeen, S. D.
Mall Tool Co., 7740 S. Chicago Ave., Chicago
19, Ill.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State
St., Milwaukee 8, Wis.
Nedco Co., 88 Rumford Ave., Waltham, Mass.
Portable Elect. Tools, Inc., 255 W. 79th St.,
Chicago 20, Ill.
Porter-Cable Machine Co., 1714 N. Salina St.,
Syracuse 8, N. Y. ("Guild" & "Speed-
matic" belt-type. "Speedmatic Sterling"
reciprocating type.)
Rotor Tool Co., 17325 Euclid Ave., Cleveland
12, Ohio.

Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skilsaw, Inc., 5033 Elston Ave., Chicago 80,
Ill. "SkilSander." (Belt and disc.)
Stanley Electric Tools, Div. of Stanley Works,
480 Myrtle Ave., New Britain, Conn.
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero
50, Ill.
Syntron Co., 495 N. Lexington Ave., Homer
City, Pa.
United States Electrical Tool Co., 1050 Findlay
St., Cincinnati 14, Ohio. "U. S."
Van Dorn Electric Tools, Towson 4, Md.

SANDERS, Portable Pneumatic

Arp Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Day-
ton 1, Ohio.

Chicago Pneumatic Tool Co., 6 E. 44th St., New
York, N. Y. "CP," "Hicycle" & "Super-
cycle."
Independent Pneumatic Tool Co., 175 State St.,
Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York
4, N. Y.
Master Pneumatic Tool Co., 149 Peniman Rd.,
Orwell, Ohio. "Master Power."
National Air Sander, Inc., 2810 Auburn St.,
Rockford, Ill. "Mity-Midget."
Porter-Cable Machine Co., 1714 N. Salina St.,
Syracuse 8, N. Y. "Speedmatic Speed-Bloc."
Rotor Tool Co., 17325 Euclid Ave., Cleveland
12, Ohio.
Schramm, Inc., Virginia & Garfield Aves.,
West Chester, Pa.
Sundstrand Machine Tool Co., 2531 11th St.,
Rockford, Ill. "Superior."
Watervliet Tool Co., 1349 Broadway, Albany
1, N. Y.

SANDERS, Road

Highway Safety Appliances, Inc., 1381 Mar-
shall Ave., St. Paul 4, Minn. "Elston."
(Electric for truck and bus.)
Lintern Corp., 29-2 Riverside Drive, Berea,
Ohio. "Lintern." (Air, electric and vacu-
um operated, for trucks and buses.)
"Clysan."

SANDPAPER

Barrett Equipment Co., 2101 Cass Ave., St.
Louis 6, Mo.
Behr-Manning Corp., Troy, N. Y. "Adalox,"
"Durite," "Metalite," "Speed-Wet Durite."
Carborundum Co., Buffalo Ave., Niagara Falls,
N. Y. "Aloxite."
Clover Mfg. Co., Norwalk, Conn.
Mid-West Abrasive Co., 510 S. Washington St.,
Owosso, Mich.
Minnesota Mining & Mfg. Co., 900 Fauquier
St., St. Paul 6, Minn. "Three-M-ite,"
"Wetordry Tri-Mite."

SAWS, Band

Beebe Bros., 2724 Sixth Ave., S. Seattle 4,
Wash. "BB Speed-Cut," "Little Cut-Up."
(Jig, for brake lining cutting.)
Boice-Crane Co., 930 W. Central Ave., Toledo
6, Ohio.
Clemson Bros., 22 Cottage St., Middletown,
N. Y. "Star."
Colladay Machine Works, 125 E. Luray St.,
Philadelphia 20, Pa.
Crowningshield, F. K., 71 Swamp Rd., Green-
field, Mass.
Delta Power Tool, Div. Rockwell Mfg. Co.,
600 E. Vienna Ave., Milwaukee, Wis.
Do All Co., 254 N. Laurel Ave., Des Plaines,
Ill. "Do All Zephyr." (Contour.)
Fanco Machine Co., 1320 18th St., Racine, Wis.
Grob Bros., Crafton, Wis. (Die.)
Johnson Mfg. Co., 1013 Barnes St., Albion,
Mich.
Jones Superior Machine Co., 1258 W. North
Ave., Chicago, Ill.
Laidlaw, Inc., Wm., 7 Greenwich St., Belmont,
N. Y.
Machine Tool Div., Kalamazoo Tank & Silo
Co., 500 Harrison St., Kalamazoo, Mich.
"Kalamazoo."
Moak Machine & Tool Co., 2547 Connor St.,
Port Huron, Mich.
Porter Machinery Co., C. O., 666 Front Ave.,
N. W., Grand Rapids, Mich.
Ryerson & Son, Inc., Jos. T., 16th & Rockwell
Sts., Chicago, Ill.; also 1600 E. Euclid Ave.,
Detroit, Mich.
Tannewitz Works, 315 Front Ave., N. W.,
Grand Rapids 4, Mich.
Walker-Turner Div., Kearney & Trecker Corp.,
639 South Ave., Plainfield, N. J.
Wallace & Co., J. D., 134 S. California Ave.,
Chicago, Ill.
Wells Mfg. Corp., E. on Highway M-60, Three
Rivers, Mich.
Yates-American Machine Co., Beloit, Wis.

SAWS, Circular

Beach Mfg. Co., Mill & High Sts., Montrose,
Pa.
Boice-Crane Co., 930 W. Central Ave., Toledo
6, Ohio.
Delta Power, Div. Rockwell Mfg. Co., 600 E.
Vienna Ave., Milwaukee, Wis.
De Walt, Inc., Fountain Ave., Lancaster, Pa.
Espan-Lucas Machine Works, Front St. &
Girard Ave., Philadelphia 23, Pa.
Greenlee Bros. & Co., 2100 12th St., Rock-
ford, Ill.
Hermance Machine Co., 178 Campbell St.,
Williamsport 19, Pa.



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STANDARD-THOMSON CORPORATION
DAYTON 2, OHIO

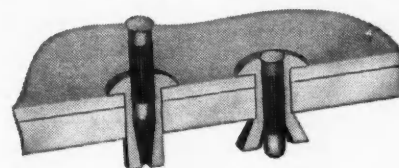




save time

drive rivets with a hammer

As simple as hammering nails, you can save valuable time on sheet metal assembly jobs with Drive-Pin Rivets. There are no special procedures, no special tools with the Cherry Rivet Company's series of Drive-Pin *blind* Rivets.



When installed, the serrated pin is driven into the tapered hole in the rivet. The surrounding section of the rivet shank is first expanded into the hole in the material; then the four sections of the protruding end of the shank expand to form a blind head at the back of the work.

Available in six diameters in steel ($\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{8}$ ", and $\frac{1}{2}$ ") and three diameters in aluminum ($\frac{3}{16}$ ", $\frac{1}{4}$ ", and $\frac{5}{16}$ "). Grip lengths for material thicknesses from $\frac{1}{8}$ " to $1\frac{1}{2}$ ". Brazier and Countersunk (100°) head styles.

Drive-Pin Rivets are ideal for fastening light sheet to heavier sheeting or to framework where rigidity is great enough to withstand hammering. Driving the pin forces the head of the rivet against the top sheet. In turn, the top sheet is forced against the material beneath. The rivet forms a tight head on the blind side.

drive-pin rivet advantages

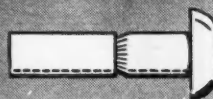
1. Installed by one man working from one side of the job.
2. An ordinary hammer is the only installation tool needed.
3. Requires very little preparatory instruction on the job.
4. Unusually good material thickness tolerance.
5. Hole-filling qualities are exceptional.

FIT YOUR FASTENING JOB EXACTLY

FIRST... look to Cherry Rivet Company's complete line of blind rivets and high strength structural bolts.



CHERRY RIVETS, the standard of industry, are available in more rivet types and a greater range of diameters—grip lengths—and material thickness tolerances than any other blind rivet manufactured and many other fasteners.



BLIND BOLT. A large-diameter, blind fastener designed for heavy sheet metal jobs where access to the job is blind or limited. Blind Bolts install fast... they have strength characteristics equal to or greater than AN bolts.



LOCK BOLT. A high-strength, structural, non-blind bolt to be used where shear and tension loads are high. Will not loosen in service. Ease of installation saves time. You save considerable weight over nuts and bolts.

Cherry Rivet

COMPANY

A Division of Townsend Company

CHERRY RIVET CO., 231 Winston St., Los Angeles 13, Cal.

Cherry Rivets are approved by U. S. Navy, U. S. Air Force, and Civil Aeronautics Authority. Cherry Rivets are patented.

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Cherry Rivet Company, Dept. K-104
231 Winston Street, Los Angeles 13, Calif.

Please send me detailed information on Cherry Rivet Company products as checked here:

- ☐ DRIVE-PIN RIVETS
- ☐ CHERRY BLIND RIVETS
- ☐ LOCK BOLTS
- ☐ CHERRY TOOLS
- ☐ BLIND BOLTS

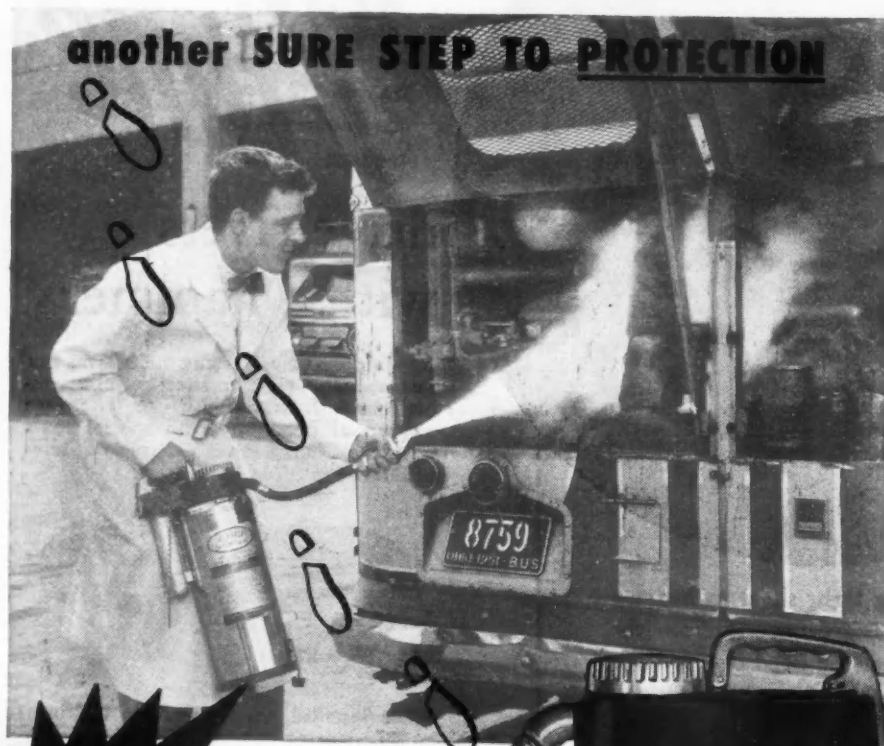
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Available in two sizes: 20 pound; and 30 pound. Consult your classified telephone directory or write for your nearest Buffalo representative.



- INSTANT FINGER TIP CONTROL
- LIGHT WEIGHT . . . EASY TO HANDLE
- STAINLESS STEEL CONSTRUCTION
- LONGER RANGE

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Laboratories Approved

BUFFALO FIRE APPLIANCE CORPORATION

DAYTON 1, OHIO

COMMERCIAL CAR JOURNAL'S ANNUAL
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SAWS, Band—continued

Jones Superior Machine Co., 1258 W. North Ave., Chicago, Ill.
Loma Machine Mfg. Co., 580 Fifth Ave., New York 19, N. Y.
Moak Machine & Tool Co., 2547 Connor St., Port Huron, Mich.
Power & Co., L., 2810 Oakford St., Philadelphia 46, Pa.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 18F, Mich.
Tannewitz Works, 315 Front Ave., N. W., Grand Rapids 4, Mich.
Wallace & Co., J. D., 134 S. California Ave., Chicago, Ill.
Yates-American Machine Co., Beloit, Wis.

SAWS, Circular

Delta Power Tool Div., Rockwell Mfg. Co., 600 E. Vienna Ave., Milwaukee, Wis.

SAWS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Quick-Saw."
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Cummins Portable Tools, Div. Cummins Chicago Corp., 4740 W. Ravenswood Ave., Chicago 40, Ill.
Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Moto-Saw."
Forsberg Mfg. Co., 125 Sea View Ave., Bridgeport, Conn. "Whiz-Saw."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Kett Tool Co., 5 E. Third St., Cincinnati 2, Ohio. (Also att. for use with portable electric and pneumatic drill motors.)
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. "Hand-I-Hack." (Hack.)
Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer." (Hack.)
Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill. "Mid-State Saw-Gun." (Attachment, for sawing or filing.)
Milwaukee Electric Tool Co., 5350 N. State St., Milwaukee 8, Wis.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Guild." "Speedmatic."
Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
Skillsaw, Inc., 6033 Elston Ave., Chicago 30, Ill. "Skil Saw."
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa. (Attachment, for sawing and filing.)
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.
Syntrol Co., 495 N. Lexington Ave., Homer City, Pa.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wyco."

SAWS, Portable Pneumatic

Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."

SAWS, Power Hack

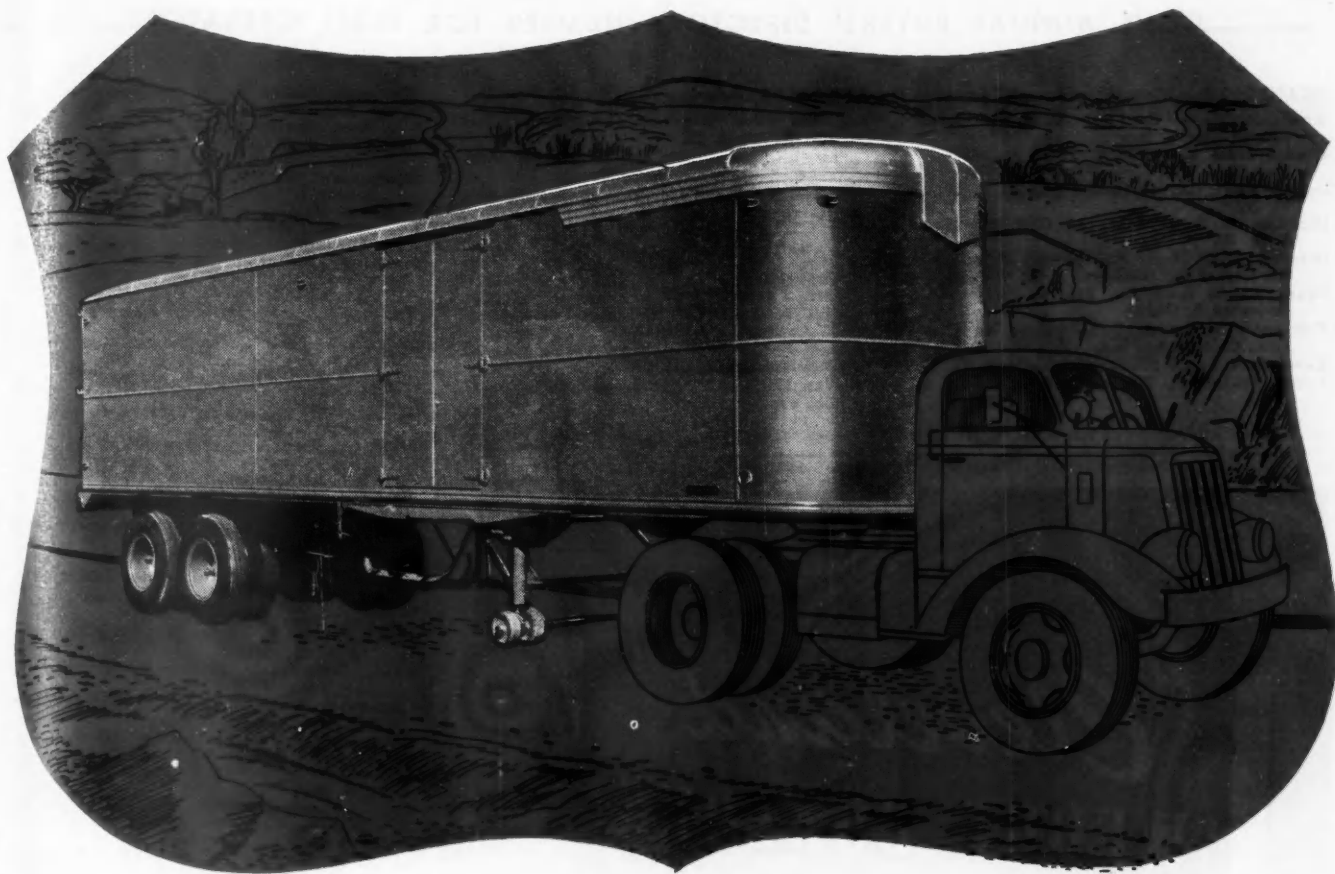
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich. "Excel."
Maquoketa Co., Clark & Maple Sts., Clinton, Iowa. "Sawmore."
Peerless Machine Co., 1600 Junction Ave., Racine, Wis.
Racine Tool & Machine Co., State St., Racine, Wis.
Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo. "S-L."

SCALES, Truck Load Indicating

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Loadometer."

SCALES, Weighing (Dial Type)

Chatillon & Sons, John, 85-93 Cliff St., New York 38, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y. "Detecto-Gram."
Dillon & Co., W. C., 1421 S. Circle Ave., Forest Park, Ill.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 8 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 1, Ohio.



No wonder they call the Clipper "The Work-Horse of the Highways"

From axe-handles to zithers—from apples to zwieback—a Highway Clipper has probably carried a load of them. Because it is available as a closed top, open top, or partial open top . . . light insulated, heavy insulated, or refrigerated . . . single axle or tandem axle . . . the Clipper is so flexible in its options that it constitutes the major freight-carrier for hundreds of fleets all over the country. It is so light in weight that it is always a big profit-maker.

Drivers are enthusiastic about the Clipper because it handles so easily on the road and when being parked, and because it rides so well behind them. Owners are equally enthusiastic because the Clipper

stands up on the road, year after year, requiring the minimum of service and attention while carrying the maximum payload . . . that's why it is known from coast to coast as the "Work-horse of the Highways."

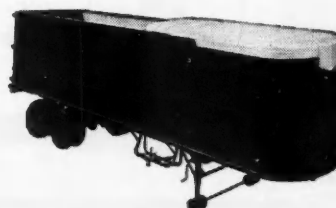
Call the convenient Highway distributor or factory branch nearest you for assistance with any of your hauling problems or for information about the Clipper.

Plants at: Edgerton, Wis. • Stoughton, Wis. • Cincinnati, O.
Manufacturers of: Trailers, Trailerized Tanks and Truck Tanks • Utility Truck Bodies • Earth Boring Machines • Pole and Cable Reel Trailers • Winches • Power Take-Offs • Service Accessories.

HIGHWAY TRAILER COMPANY • Headquarters: Edgerton, Wis.



Clipper Full Open Top



Clipper Partial Open Top

DESIGNED, BUILT, SERVICED — *"Always a little better."*

SCALES, Weighing (Platform Type)

American Scale Co., 919 Baltimore Ave., Kansas City 6, Mo.
Bonded Scale Co., 2176 S. Third St., Columbus, Ohio.
Buffalo Scale Co., 46 Letchworth St., Buffalo 13, N. Y.
Chatillon & Sons, John, 85 Cliff St., New York 38, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.
Exact Weight Scale Co., 944 W. Fifth Ave., Columbus 8, Ohio.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 1, Ohio.

SCRAPERS, Bearing

Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Millers Falls Co., Greenfield, Mass.
Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.

SCRAPERS, Carbon

Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. "Katz-Klaw."
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.

Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., South St., New Britain, Conn.
Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
Proto Tools, 2209 Sante Fe Ave., Los Angeles 54, Calif. "Proto."
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

SCREENS, Silk Printing (For Trucks)

Fowler Co., H. B., 250 Conestoga Rd., Wayne, Pa.

SCREW DRIVERS (Portable Electric)

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Hicyele."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Skillsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Ski Drivers."
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
United States Electric Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md. "Scrugun."

SCREW DRIVERS (Portable Pneumatic)

Aro Equipment Co., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1335 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Skillsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Ski Driver."

SEALERS for Casting Repairs, See Cement, Cast Iron

SEALS, Oil & Grease, See Retainers, Oil and Grease

SEATS, Bus

American Seating Co., Ninth St. & Broadway, Grand Rapids, Mich.
American Seating Co., 9th St. & Broadway, Grand Rapids, Mich. "Tilt-A-Way."
American Wicker Works, Inc., 3105 26th St., Minneapolis 6, Minn.
Amesbury Seat Mfg. Co., 200 S. River St., Ypsilanti, Mich.
Goodyear Tire & Rubber Co., Airfoam Dept., Akron 16, Ohio. "Airfoam."
Ionia Mfg. Co., 121 S. Dexter St., Ionia, Mich. "Ypsilanti."
Karpen & Bros., S., 624 S. Michigan Ave., Chicago, Ill.
National Seating Co., 167 Park Ave. E., Mansfield, Ohio.
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Tropic-Aire, Inc., 4501 W. Augusta Blvd., Chicago 51, Ill.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

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If you want to cut down-time, lower operating costs, increase mileage and profits—specify Koppers K-Spun Porous Chrome Piston Rings next time you overhaul!

*Van der Horst Process.



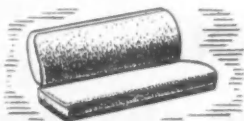
See Your Koppers American Hammered Jobber for these extra long wearing Koppers Piston Rings—equally effective for re-ring or rebore jobs. KOPPERS COMPANY, INC., Piston Ring Dept., Baltimore 3, Md.

Only Koppers can furnish K-Spun or Porous Chrome!



SEATS, Truck

(See also Cushions, Seat)



American Seating Co., 9th St. & Broadway,
Grand Rapids, Mich. "Tilt-A-Way."
American Wicker Works, Inc., 3105 E. 26th
St., Minneapolis, Minn.
Bostrom Mfg. Co., 133 W. Oregon St., Mil-
waukee 4, Wis. (Spring suspension.)

Chicago Mfg. Co., 411 N. Trumbull Ave., Chi-
cago, Ill.
Comfort Cushion Co., 5062 Loraine Ave., De-
troit 8, Mich.
Detroit Harvester Co., Motor State Products
Div., 103 S. River St., Ypsilanti, Mich.
(Spring.)
Goodyear Tire & Rubber Co., Airfoam Dept.,
Akron 16, Ohio. "Airfoam."
Ionia Mfg. Co., 121 S. Dexter St., Ionia, Mich.
"Ypsilanti."
Milsco Mfg. Co., 2758 N. 33rd St., Milwaukee,
Wis. (Foam rubber.)
Monroe Auto Equipment Co., 1426 E. First
St., Monroe, Mich. (Spring suspension.)
National Seating Co., 167 Park Ave. E., Mans-
field, Ohio.
Perma Products Co., 7001 Morgan Ave., Cleve-
land 4, Ohio.

Pneumatic Seat Co., 841 Washington Ave.,
Rochester 17, N. Y.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center,
1230 Ave. of the Americas, New York 20,
N. Y.

SEATS, Valve

Albertson & Co., 3100 Lowell Ave., Sioux
City, Iowa. "Sioux."
Cleveland Graphite Bronze Co., Repl. Sales
Div., 6545 Carnegie Ave., Cleveland 3,
Ohio. "Monochrome."
Dorman Products Inc., 1004 Sycamore St.,
Cincinnati 2, Ohio.
Eaton Mfg. Co., Saginaw Div., 9771 French
Rd., Detroit, Mich.
Haynes Stellite Div., Union Carbide & Carbon
Corp., Kokomo, Ind.
Hub City Iron Co., 218 First Ave., S. W.,
Aberdeen, S. D.
Jambor Tool & Stamping Co., 3057 N. 30th
St., Milwaukee 10, Wis. "Bull Dog."
Lee Co., K. O., Congress at First Ave., S. E.
Aberdeen, S. D. "Knock Out."
Parts Processing Corp., 2100 Howard St., De-
troit, Mich. "Par-Plus."
Perfect Parts, Inc., 55 Amsterdam Ave., New
York 23, N. Y.
Peterson Welding Laboratories, 1423 Virginia
St., Kansas City 6, Mo. "Peterson-Burston."
Thompson Products, Inc., 23555 Euclid Ave.,
Cleveland 17, Ohio. "Thompson Dura-
chrome."
Toledo Steel Products Co., 3300 Summit St.,
Toledo 11, Ohio. "Chrom-O-Loy;" "To-
ledo." (Cast Iron.)
Waterbury Tool, Div. of Vickers, Inc., 133 E.
Aurora St., Waterbury 91, Conn.
Wausau Motor Parts Co., 1003 Harrison Blvd.,
Wausau, Wis. "Chieftain."
White Machine Works, 1401 Bellevue Ave.,
Eau Claire, Wis. "Superior."

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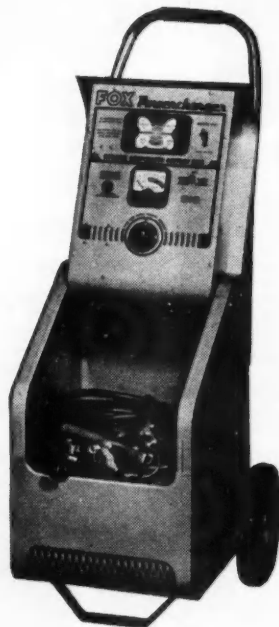
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Blood Brothers Machine Co., Div. Standard
Steel Spring Co., Allegan, Mich. (For
trucks.)
Borg-Warner Service Parts Co., 310 S. Michigan
Ave., Chicago 4, Ill. "Borg-Warner."
Detroit Bevel Gear Co., 8130 Jos. Campau
Ave., Detroit 11, Mich.
Dittmer Gear & Mfg. Corp., 193 Grand St.,
Lockport, N. Y.
Lempco Products, Inc., 5490 Dunham Rd.,
Bedford, Ohio. (Sole distributors to re-
placement trade, Lempco Automotive Inc.,
2953 E. 55th St., Cleveland 4, Ohio.)
Mechanics Universal Joint Div., Borg-Warner
Corp., 2020 Harrison Ave., Rockford, Ill.
Miller-Shelby Products Div., Michigan Steel
Tube Products Co., 9450 Buffalo Blvd.,
Detroit 12, Mich.
Morse Chain Co. (Div. of Borg-Warner Corp.),
7601 Central Ave., Detroit 8, Mich. "Mor-
flex."
Neapco Products, Inc., South & Cross Sts.,
Pottstown, Pa.
Republic Gear Co., 2197 Beaufait Ave., Detroit
7, Mich.
Saginaw Steering Gear Div., General Motors
Corp., Clinton & Hamilton Sts., Saginaw,
Mich.
Spencer Mfg. Co., Spencer, Ohio.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett
Rd., Toledo 1, Ohio.
Steel and Tubes Div., Republic Steel Corp.,
224 E. 131st St., Cleveland 8, Ohio.
Thompson Products, Inc., 2196 Clarkwood Rd.,
Cleveland 3, Ohio.
U. S. Axle Co., Water St., Pottstown, Pa.
Universal Products Co., 6455 Kingsley Ave.,
Dearborn, Mich.
Warner Automotive Parts Div., Borg-Warner
Corp., S. Wayne St., Auburn, Ind.
York Electric & Machine Co., Loucks Mill
Rd., York, Pa. "Bilt-Well;" "Forman."
(Sole distributors, Foreman, Inc., 630
Loucks Mill Rd., York, Pa.)

SHEARS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania
Ave., Towson 4, Md.
SkilSaw, Inc., 5022 Elston Ave., Chicago 30,
Ill. "SkilShear."
Stanley Electric Tools, Div. of Stanley Works,
430 Myrtle Ave., New Britain, Conn.
"Stanley Unishear."
Van Dorn Electric Tools, Towson 4, Md.
"Porto-Shear."

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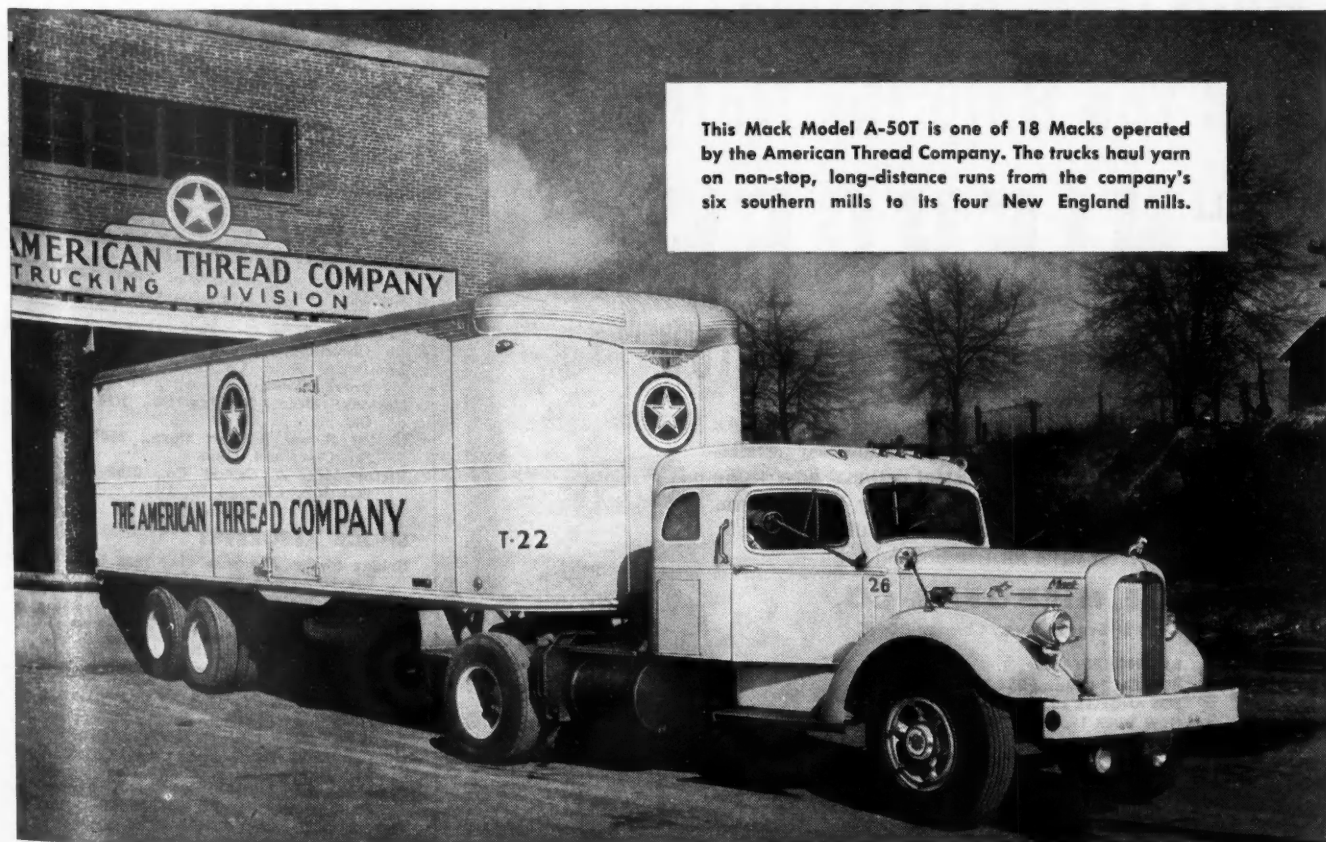
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SHIMS, Axle Caster

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa, (Bronze.)
Kwik-Ezee, Inc., 17-23 W. 60th St., New York 23, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Merrill Engrg. Laboratories, 1230 Lincoln St., Denver 3, Colo.
Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind. "D & T."

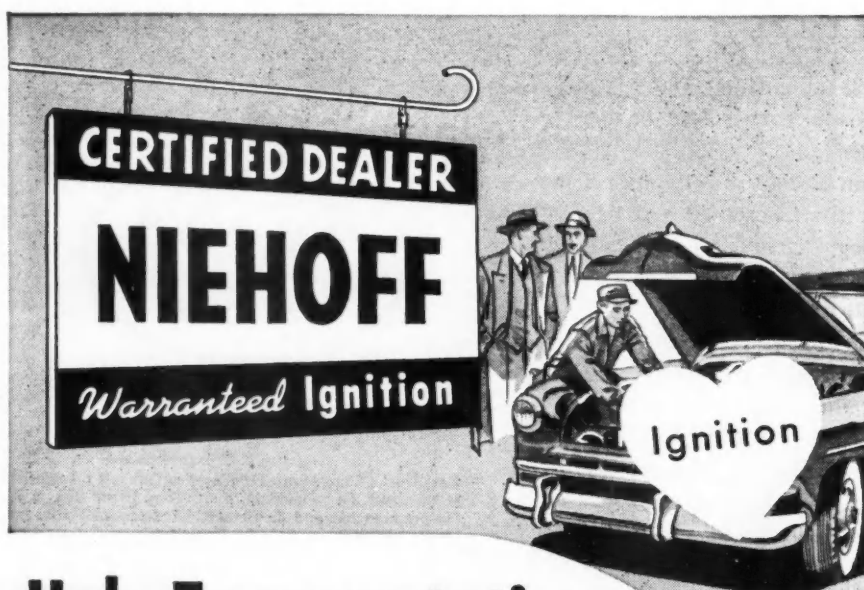
SHIMS, Brake Lining

Atlas Asbestos Co., North Wales, Pa.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Fibre.)
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn. "Coltrock." (Molded.)
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Gray-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
National Brake Block Corp., 79 Madison Ave., New York, N. Y. "Arco."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.

Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

SHIMS, Brass and Copper

Acme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich. "De-Sta-Co."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Brass.)
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Kickhafer Mfg. Co., 901-903 S. Second St., Milwaukee 4, Wis.
Konislow Mfr. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.
Laminated Shim Co., 6205 Union St., Glenbrook, Conn.
McCord Corp., Pionelle at E. Grand Blvd., Detroit 11, Mich.
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Calif. "Masco."
National Motor Bearing Co., Redwood City, Cal. (Brass.)
Rotax Mfr. Co., 24 Bathurst Place, Newark 7, N. J. (Brass stock.)
United Screw & Bolt Corp., 3590 W. 88th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Whitehead Stamping Co., 1661 W. Lafayette Blvd., Detroit 16, Mich.
Wisconsin Gasket & Mfg. Co., 8724 Granville Rd., Granville, Wis.



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Blaisdell Mfg. Co., 1350 Coronado Ave., Long Beach 4, Calif. "Feathered." (Bearing.)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Laminated Shim Co., 6205 Union St., Glenbrook, Conn. "Laminum." (Brass and Steel.)
National Motor Bearing Co., Redwood City, Cal.
Wisconsin Gasket Die Co., 8724A Granville Rd., Granville, Wis.

SHIMS, Steel

Acme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. (Rear Axle End Play.)
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich. "De-Sta-Co."
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Jamhor Tool & Stamping Co., 3057 N. 39th St., Milwaukee 10, Wis. "Bull Dog."
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Konislow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.
Laminated Shim Co., 6205 Union St., Glenbrook, Conn.
National Motor Bearing Co., Redwood City, Cal.
United Screw & Bolt Corp., 3590 W. 88th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.

SHOCK ABSORBERS

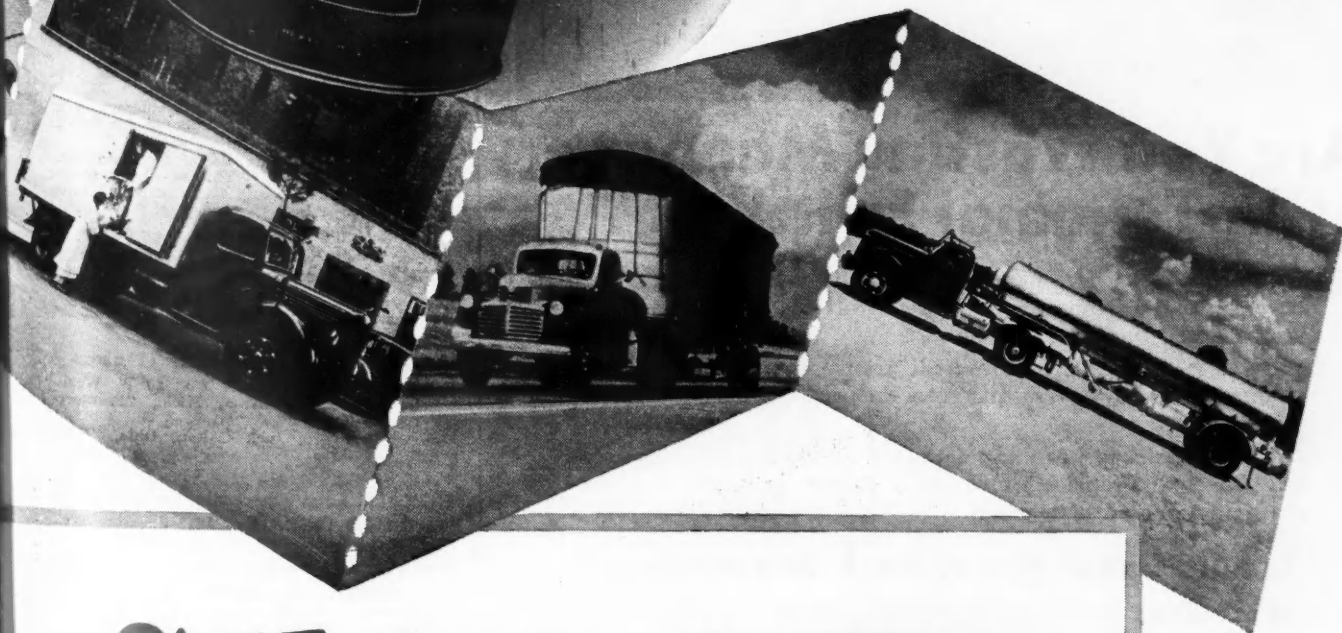
Briggs Shock Absorber Co., 1523 E. 46th St., Cleveland 3, Ohio. (Friction hydraulic.)
Delco Products Div., General Motors Corp., 329 E. First St., Dayton, Ohio. (Hydraulic.)
Gabriel Co., 1523 45th St., Cleveland 3, Ohio. "Gabriel." "Cledraulic."
Heckethorn Mfg. & Supply Co., Littleton, Colo. "Columbus." (Licensees.)
Houdaille-Hershey Corp., Houde Engineering Div., 537 E. Delavan Ave., Buffalo 11, N. Y. "Houdaille." (Hydraulic.)
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Hydraulic.)
Rowland, Inc., William & Harvey, Frankford, Philadelphia 24, Pa. (Hydraulic.)
Thompson Products, Inc., 23655 Euclid Ave., Cleveland 17, Ohio. (Hydraulic.)



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Grey-Rock Riv. of Raybestos-Manhattan, Inc., Manheim, Pa.

Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.

Pick Mfg. Co., West Bend, Wis.

Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.

Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."

SHUTTERS, Radiator

(See also Covers, Radiator)

Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Moto-Gard."

Hardy Mfg. Corp., Broadway & Water Sts., Pendleton, Ind. "Winterfronts."

Kysor Heater Co., Haynes St., Cadillac, Mich.

Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis 8, Minn.

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Arrow Safety Device Co., Mt. Holly, N. J. (Also flashing stop lights.)

Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill. "Pathfinder."



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Bolser Corp., S. Main St., Cedar Falls, Iowa. (For trucks.)

Carlton Lamp Co., 736 S. 13th St., Newark 3, N. J.

Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio.

Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.

Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Do-Ray Turn-Lite."

Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.

Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone."

Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.

Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. "Premier XX."

Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Also combination stop, tail and license brackets.)

Guide Lamp Div. General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.

Industrial Scientific Co., 130 N. Fruit Ave., Fresno 9, Calif. "Indusco-Lite." (Semaphore type for trucks.)

K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.

Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."

Miro-Flex Co., 1824 E. 2 St., Wichita 7, Kan.

Parker Products, Inc., 20 N. 16th St., Minneapolis 3, Minn. "Parker Direct-A-Lite."

Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (Stop semaphores, for school buses.)

Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.

See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.

Signal-Stat Corp., 523-39 Kent Rd., Brooklyn 11, N. Y. (Bus and truck.)

Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Also stop lights and combination stop and tail.)

Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.

Trippe Mfg. Co., 2608 W. 16 St., Chicago 8, Ill.

Tung-Sol Lamp Works, Inc., 95 8th Ave., Newark 4, N. J.

Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa.

U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer."

Vac-O-Lite Signal Co., 4630 Rubidoux Ave., Riverside, Calif. (Semaphores for trucks and trailers.)

Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. "Yankee Jr." truck;

"Turnmaster" auto; also conversion units for converting parking and tail lights into flashing signals.

SIGNALS, Gasoline Tank

Scully Signal Co., 88 First St., Cambridge, Mass. "Ventalarm."

SIGNALS, Low Air Pressure (Brakes)

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. "Pressure-Clix."

Monroe Standard, Inc., Galion, Ohio, "Wig-Wag" (Visual).

SIGNALS, Low Hydraulic Brake Fluid

The Baldwin Electric Co., 1212 Jackson Ave., Toledo, Ohio.

SIRENS, Horn, See Horn Sirens

SIX WHEEL ATTACHMENTS, See Axle Units. Third for Trucks

SLEEVES, Cylinder

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."

Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Centrifugally cast.)

Centrifugal Foundry Co., 1367 W. Sherman Blvd., Muskegon, Mich.

Frank Foundries Corp., 2020 Third St., Moline, Ill. "Frankite."

King Quality Products Co., 2320 Marconi St., St. Louis 20, Mo.

Luthy Co., F. A., 302 Cooper St., Jackson, Mich.

McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.

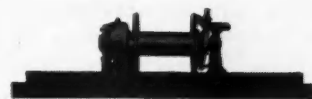
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32 Standard Models from 6,000 lbs. to 100,000 lbs. Rated Capacity

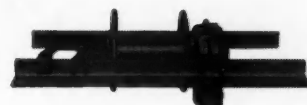
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moving, lumbering, construction, oil field work and hauling, as well as a complete line of winches for utility work. Be safe . . . be sure . . . specify **BRADEN WINCHES** for all handling jobs.

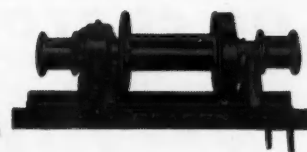
NOTICE: ALL BRADEN Models from the MU5 through MS50 have as standard equipment the famous OIL COOLED, FULLY ADJUSTABLE, AUTOMATIC SAFETY BRAKE.



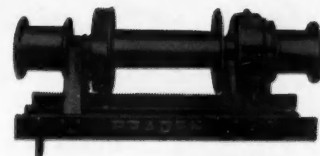
M3 SERIES Particularly well adapted for use on all light duty jobs handling loads up to 6,000 lbs.



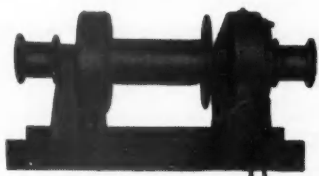
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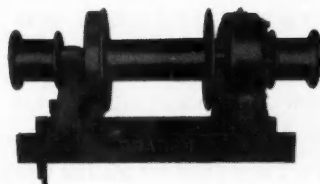
M6 SERIES Rugged models rated 12,000 lbs. Equipped with BRADEN's famous OIL COOLED, FULLY ADJUSTABLE, AUTOMATIC SAFETY BRAKE.



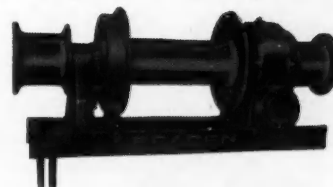
MS9 SERIES A dependable winch rated 20,000 lbs. The OIL COOLED, FULLY ADJUSTABLE, AUTOMATIC SAFETY BRAKE, standard equipment.



MS50-20B The greatest capacity Truck winch ever built on a production line. Rated capacity; 100,000 lbs. Gear ratio, 40 to 1.



MS18-18B Rated capacity 45,000 lbs. Full cab controls for drum clutch and cable drum band brake.



MS12-18B A safe, medium duty winch rated 30,000 lbs. For use with 1½ and 2 ton trucks. Gear ratio; 34:1.

BUY BRADEN — They are Safer

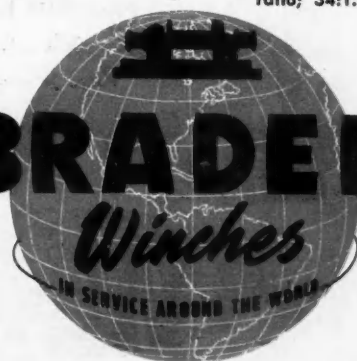
BRADEN WINCH COMPANY

Post Office Box 1709

BRADEN

TULSA 1.

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SLEEVES, Cylinder—continued

Nylen Products Co., Lake Shore Drive, St. Joseph, Mich.
Ohio Piston Co., 5340 Hamilton Ave., Cleveland 14, Ohio.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Wet and dry assemblies.)
Veranick Mfg. Co., 4700 E. Nevada St., Detroit 34, Mich. (Dry type.)
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wisconsin Machinery & Mfg. Co., S. 60th St. & Beloit Rd., Milwaukee 14, Wis.

SLUDGE REMOVING COMPOUNDS, CRANK-CASE, See Compounds, Crankcase Sludge Removing

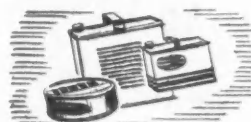
SNOW PLOWS

Badger Machine Co., 1124 W. 5th St., Waukegan, Minn.
Baker Mfg. Co., 571 Stanford Ave., Springfield, Ill.
Burch Corp., Thoman St., Crestline, Ohio.
Davenport-Bealer Corp., 2305 Rockingham Rd., Davenport, Iowa. "Frink Sno-Plows." (Western United States.)
Donnell Hydraulic Co., Garden Prairie, Ill. (Hydraulic conversion unit.)
The Four Wheel Drive Auto Company, Clintonville, Wis. "FWD."

Frink Sno-Plows, Inc., Clayton, Thousand Islands, N. Y. (Eastern United States.)
Good Roads Machinery Corp., Minerva, Ohio.
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio. "Hitco."
Klauer Mfg. Co., Dubuque, Iowa. "Snogo." (Rotary.)
National Lift Co., 225 Madison St., Waukegan, Wis. "Snowlift."
New England Road Machinery Co., 801 E. 6th St., Boston, Mass. "Nermco."
Root Spring Scraper Co., 527 W. North St., Kalamazoo 11, Mich.
Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. "Aristocrat."
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Wausau Iron Works, Wausau, Wis.

SOAPS, Car Washing

(See also Detergents)



Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Lavo Co. of America, 300 N. Seventh St., Milwaukee, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City 1, N. Y.
Murphy-Phoenix Co., Div. of Phoenix Oil Co., 9505 Cassius Ave., Cleveland 5, Ohio.
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."

SOLDERS

(Advertisers Only)

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Kester Solder Co., 4201 Wrightwood Ave., Chicago 39, Ill. (Acid-core, body, radiator flux core.)
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, N. Y. 5, N. Y. (Bar, body, acid core, rosin core.)

SOLVENT, Ice

Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. (Ice preventing on windshield.)
Normandy Chemical Corp., 9th & Western, Muskegon, Mich. "Saif."

SOLVENTS, Oil, Carbon and Grease Removing

Aeroil Products Co., Wesley St. South, Hackensack, N. J. "Aeroil Auto-Solv."
Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Atomized Materials Co., 250 Magee Bldg., Pittsburgh 22, Pa. "Kwik-Solv."
Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. "Barco."
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix Metalclean."
Blakeslee & Co., G. S., 1900 S. 52nd St., Cicero, Ill. "Blacosolv."
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Byr-Ma-Co."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Sludgebuster."
Carbide & Carbon Chemicals, Div. Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. "Cellosolve."
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
Circo Products, Div. Optimus Equipment Co., 24 Main St., Matawan, N. J. "CirCold," "Dee Tee," "Per Solv," "Circo-Solv," "Dee-Solv," "Optimus."
Cities Service Oil Co. (Pa.), 60 Wall Tower, New York 5, N. Y. "Cisco," "Solvent 26A."
Clayton Mfg. Co., N. Temple Bldg., El Monte, Calif. "Kerrick Kermulso."

**50,000 miles
OF CUSTOMER GOOD-WILL
Guaranteed!**

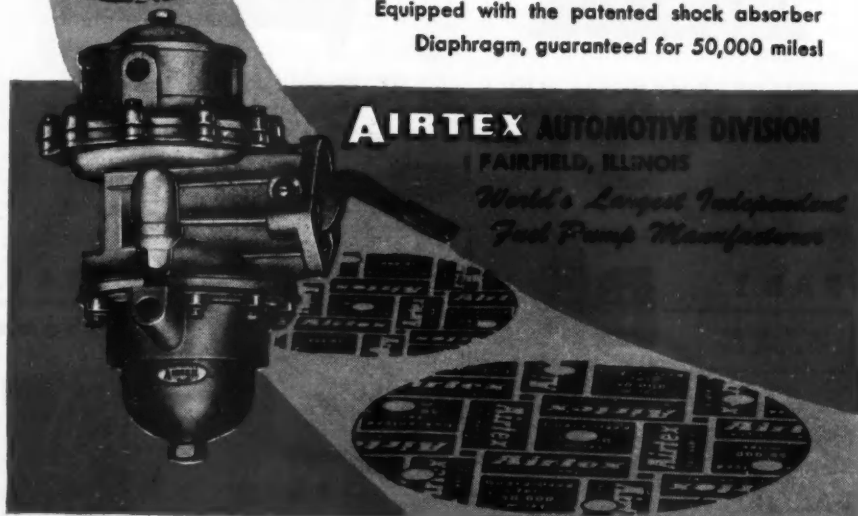


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Also ask for Airtex Anti-Pulsation Fuel Filters. Self-cleaning, porous metal filter disc removes dirt, lint, water.

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"Build better gaskets for better sealing service" has been the watchword of the McCord gasket organization throughout the years. The reputation of McCord gaskets for quality, fit, and the ability to make and keep TITE joints was established through adherence to this policy.

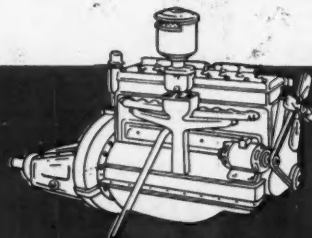
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DETROIT 11, MICH.

Most Car Makers Do!

Specify

McCORD ... the Gasket that

Is Engineered to the Design of the Motor

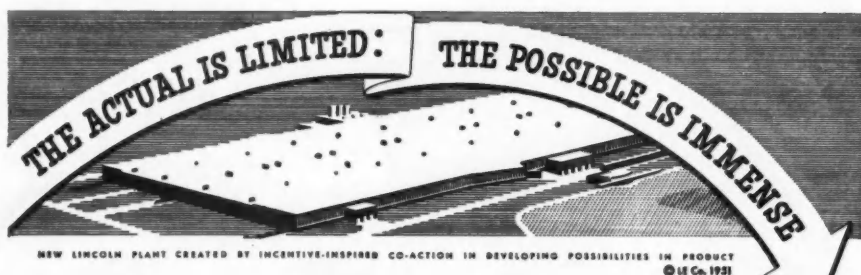


SOLVENTS, Oil, Carbon and Grease Removing—continued

Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa. "Cyclodiene," "Percyclodiene," "Dicyclodiene," "Tricyclodiene," "Polydiene," "Tetradiene."
 Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
 Crystal Soap & Chemical Co., 6800 State Rd., Philadelphia 35, Pa.
 Curran Corp., S. Canal St., Lawrence, Mass. "Gunk," "Motor Purge."
 Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.
 Delta Chemical Co., 408 Madison Ave., Memphis 1, Tenn.

Detrex Corp., Box 501, Detroit 32, Mich. "Drex-Foam," "Perm-A-Clor," "Triad."
 Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid Duxol."
 Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Actusol," "Spresx."
 du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del. "Perclene," "Triclene."
 Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y. "Solvesso," "Varsol."
 Fine Organics, Inc., 211 E. 19 St., New York 3, N. Y. "F.O."
 Gerlach Co., A. E., P. O. Box 133, Eddington, Bucks County, Pa. "60 Cleaner," "Soax," "Jelzine."
 Gilsten Co., 13 Barnard St., Hilldale, Mich.
 Gray Mills Corp., 2006 Ridge Ave., Evanston, Ill.

Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."
 Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. "Whiz Dip-Zoff," "Whiz Ho-Zof," (For garage use.)
 Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Road, Coraopolis, Pa. "Hypressure Jenny."
 Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industrosolv."
 Jarrett Co., Cecil H., W. 2nd St., Newton, N. C.
 Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
 Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
 Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
 Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus," "Magnusol."
 Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
 Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. "Imperial Wash-er Clean."
 Mitchell-Bradford Chemical Co., 2446 Main St., Stratford, Conn. "Black Magic."
 Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
 Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
 Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Major."
 Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio. "Penn Drake Gumont."
 Permo Products Co., 1629 Platte St., Denver 2, Colo.
 Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Silco."
 Phillips Mfg. Co., 3475 Toughy Ave., Chicago 45, Ill. "Phillsolv."
 Pierce & Stevens, Inc., 710 Ohio St., Buffalo 3, N. Y. "P.S.S."
 Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn.
 Ramsey Corp., 2693 Forest Park Blvd., St. Louis 8, Mo.
 Schaffer Co., M., 597 St Ann's Ave., Bronx 55, N. Y.
 Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Solve," "D-Greaseo."
 Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
 Solron Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Nasolv," "Solv," "Vaporsolv," "Savsol."
 Stain-Ox Co., 625 E. First Ave., Roselle, N. J. (Oil and grease.)
 Standard Oil Co. of Calif., 225 Bush St., San Francisco 20, Calif.
 Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
 Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
 Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Penetrol," "Turco Mulsine," "Turco Transpo," "Ferrex."
 U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
 Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa. "Sure-Rite."
 Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

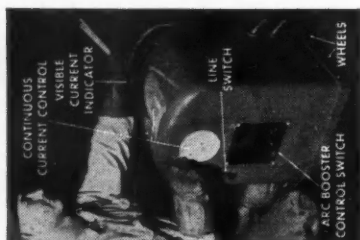


BUILT FOR LIGHT OR HEAVY WELDING TO SIMPLIFY YOUR REPAIRS

Now, even the inexperienced operator makes strong, quality welds. With the "Fleetwelder's" wide current range and its non-sticking arc, heavy frame and axle repairs as well as light body jobs are done in a minimum of time... with the minimum of cost.

- Handles $\frac{1}{8}$ " to $\frac{1}{4}$ " electrodes
- Has "Arc-Booster" to start the arc automatically.
- Portable... has wheels for easy moving.
- Simple to install... operates on single phase power.

Fig. 3—"Fleetwelder" 200 AC—low in price. Has Lincoln famous industrial construction... yet sells for less than other welders of comparable capacity



LINCOLN WELDED REPAIRS ALWAYS SAVE MAN-HOURS AND CUT COSTS



Fig. 1—Cuts Radiator Leaks by welding this simple support directly to truck frame. Allows radiator to float independently of cab body and reduce damage from road pounding.



Fig. 2—Patches Torn Fender by first tacking on sheet metal patch and then adding body solder with electric arc torch. Concentrated heat from electric arc cuts distortion... saves on sanding and finishing.

HERE IS HOW

Write for Bulletin 1301 on "Fleetwelder" 200. Dept. 326

THE LINCOLN ELECTRIC COMPANY
 CLEVELAND 17, OHIO

SPACERS, Wheel

Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. (Dual.)

SPARK PLUG CLEANERS, See Cleaners, Spark Plug

SPARK PLUGS

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
 American Eagle Spark Plug Co., c/o Herbnick Mfg. & Engrg. Co., 13697 Dix Rd., Wyandotte, Mich.
 Auburn Spark Plug Co., York St., Auburn, N. Y.
 B. G. Corp., 136 W 56 St., N. Y. 19, N. Y.
 Blue Crown Spark Plug Co., Div. of Motor Master Products Corp., 1800 Winnemac Ave., Chicago 40, Ill. "X-Citer."
 Bowers Battery & Spark Plug Co., Reading, Pa.
 Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
 Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.

When Dependable Performance means most!

● The consistently *dependable* performance of Ditzler Finishes is the chief reason Ditzler has grown to be the largest *exclusive* producer of automotive finishes. For nearly fifty years Ditzler Finishes have been used by most of the leading manufacturers of passenger cars, trucks and buses. This continuous preference is the best proof that Ditzler Finishes are better than any others for all your refinishing needs.



You Can't Buy Better Black Enamel than DITZLER'S DQE-9000

● Now better than ever—Ditzler's DQE-Jet Black Enamel widens its margin of superiority over all other brands. It is a deeper jet black—it dries rapidly to a rich glass-like lustre—it hides exceedingly well—it has excellent "build"—it may be air-dried or baked and it has durability plus. Jobs finished in DQE-9000 bring repeat business.

DITZLER COLOR DIVISION, Pittsburgh Plate Glass Co., Detroit 4, Mich.



SPARK PLUGS—continued



Defiance Spark Plug Corp., 323 20th St., Toledo, Ohio.
Doering Mfg. Corp., A. L., 99 Seacrest Ave., Eltingville, S. I. 12, N. Y. "Aldor," "Doering."
Doran, Inc., James A., 36 W. Exchange Pl., Providence 3, R. I.

Electric Auto-Lite Co., Fostoria, Ohio.
Firestone Tire & Rubber Co., 1200 Firestone Pkwy., Akron, Ohio.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Leonard Spark Plug Co., 148 Summit St., Newark 4, N. J. "Leonard;" "Atomic-Flash" (Shielded).
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich. "Flint," "Luthy."

Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Majestic." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Reflex Products Co., 10904 Madison Ave., Cleveland 2, Ohio.
Shurhit Products, Inc., Waukegan, Ill.
Stitt Ignition Co., 86 E. First Ave., Columbus 1, Ohio.
Thomas Automotive Products Mfg. Co., Rockford, Ill.
Trojan Products Co., Galion, Ohio. "Alvo," "Gold Bond," "Invader," "Power," "Trojan," "Gold Medal," "United," "National," "Karlite," "Motor King," "Pharis."
Tungsten Spark Plug Mfg., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill.

SPEEDOMETER CABLES, See Special Products at end of listings.

SPEEDOMETERS

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Electric Auto-Lite Co., Instrument Div., La-Crosse, Wis.
Jones-Motorola Corp., 432 Fairfield Ave., Stamford, Conn. (For fire engines, trucks, racing cars, etc.)
King-Seely Corp., K-S Bldg., 315 S. First St., Ann Arbor, Mich. "K-S."
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "U. S. Tachograph." (Recording, for trucks.)
Waltham Watch Co., 221 Crescent St., Waltham 54, Mass.

SPEEDOMETER CABLES

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Alloy Mfg. Co., 8207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan."
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y. "Parco."
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Speedometer Service Co., 151 Forest St., Montclair, N. J. "S. S."
Stewart Mfg. Corp., F. W., 4311 Ravenswood Ave., Chicago, Ill. "Circle Eas."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Ill.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wycoc."

SPLASH GUARDS, See Guards, Splash
SPOTLIGHTS, See Lamps, Fog, Road, Spot
SPRAY BOOTH, See Booths, Spraying

SPRAYERS, Molten Metal

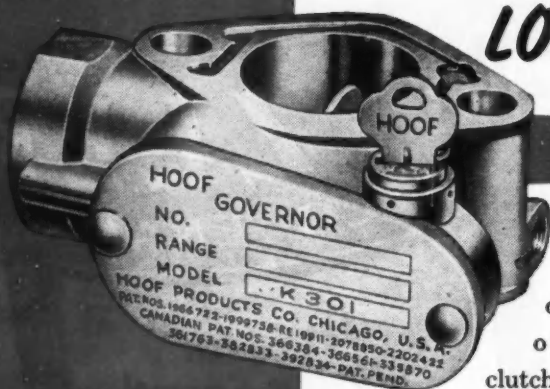
Accurate Tool & Engineering Co., 640 Tenth Ave., San Diego 1, Calif. "Trobrand."
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Metallizing Co. of America, 3520 W. Carroll Ave., Chicago 24, Ill. "Mogul."
Metallizing Engineering Co., 33-14 30th St., Long Island City, N. Y. "Metco."

SPRAYERS, Paint, Varnish, Lacquer, and Accessories

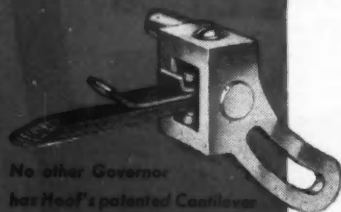
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brake-Shoe."
Black Mfg. Co., 100 Dairy Rd., Parkton 63, Md. "Milburn," "Black Arrow."
Brown Corp., W. R., 5720 Armitage Ave., Chicago, Ill. "Marvel," "Speedy." (Also auto power.)
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J. "Eclipse," "Gat."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
MacLeod Co., 2232 Bogen St., Cincinnati 22, Ohio.

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**MAKE
TRUCKS
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LONGER!**



Actual fleet records show savings of from 20% to 50% on tires, brakes, clutches, rear ends, motor rebuilding and other expense. And, naturally, the sum-total of Hoof economies adds up to this: **Longer Vehicle Life!**



No other Governor has Hoof's patented Cantilever Spring that means more accurate speed control, simplified construction and longer life!

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Don't send a boy to do a man's job!

Heavy duty jobs soon separate the men from the boys. So be sure your heavy duty engines have a man-sized oil in the the crankcase—Phillips 66 Heavy Duty Motor Oil.

We start with fine crudes. They're specially picked, carefully blended. Then, with *cold fractionation*, we split off our base oils at *low temperatures*—actually hundreds of degrees below cracking heat. No overheating, you see! No quality depreciation!

To keep your lube oil on the job when conditions are severe, we use carefully selected additives. These cut down acid action . . . disperse carbon and sludge . . . retard engine deposits and harmful corrosion.

For plenty of heavy duty lubrication at low cost per unit of work, you can depend on Phillips 66 Heavy Duty Motor Oil. It's a *man-size* oil for *man-size* jobs. Phillips Petroleum Company, Bartlesville, Oklahoma.

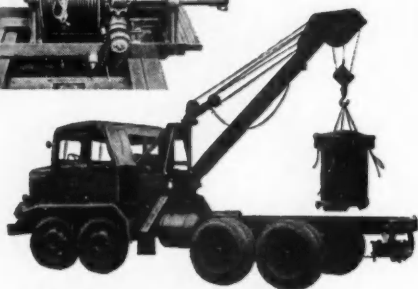
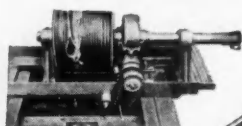
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PHILLIPS 66 HEAVY DUTY MOTOR OIL

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SILENT HOIST Equipment**
• Since 1918 •

KRANE KAR Swing-Boom Mobile Crane: for materials-handling ... lifting, transporting, positioning, gasoline or Diesel, 1 1/2, 2 1/2, 5 and 10 ton capacities, 9 to 37 ft. booms (or telescopic booms), solid or pneumatic tires. Self-stabilizing without jacks or outriggers; unobstructed vision; fast, flexible, safe, easy to operate.



WINCHES: Capstans; Single and Double Drum, Jaw Clutch, Keyed and Friction Clutch Winches. 2,000 to 50,000 lb. Capacities.

SWING-BOOM CRANES: Truck: Motor Power Operated; high capacity; takes up only a small space. For handling transformers, cable reels, lamp posts, trees, poles, manhole castings, etc. 9 to 31 ft. booms; one to 10 ton capacities.



TOWERS: 2 or 3 section type and Pantograph types, with plain, revolving or racking platforms.

TRIPOD POLE DERRICKS: for 35 ft., 45 ft., and 60 ft. Poles; single piece or telescopic side legs; removable cast steel fittings.



USERS: AT&T; N. Y. Tel. Co.; T.V.A.; Consolidated Edison Co.; W.U.; Municipalities throughout America.

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No. 79—KRANE KAR No. 70—Truck Equipment



**COMMERCIAL CAR JOURNAL'S ANNUAL
BUYERS' DIRECTORY NUMBER**

**SPRAYERS, Paint, Varnish, Lacquer,
and Accessories—continued**

Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill.
Meiser & Co., G. H., 327 E. Marquette Rd., Chicago 37, Ill. "Enginair."
Miller Corp., K. J., 2900 S. 61st Court, Cicero 50, Ill.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York 7, N. Y.



Plummer Spray Equipment Co., 700 Fillmore St., Napoleon, Ohio. "Handigrip," "Plummer."
Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Calif.
Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco."
Stowe, Jr., George M., 277 Military Road, Buffalo 7, N. Y. "Multiblaster." (For rough painting only.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

SPRAYERS, Undercoating

American Brake Shoe Co., Kellogg Div., Rochester 9, N. Y. "Visco-Spray Guns."
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 100 Dairy Road, Parkton 68, Md. "Muff Gun."
DeVilbiss Co., 300 Phillips Ave., Toledo, Ohio
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Hudson Mfg. Co., Railroad & Institute Sts., Conyers, Ga.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif. "Grover." (Air operated.)
Stewart-Warner Corp., Alemite Div., 1828 Diversey Parkway, Chicago 14, Ill.
Stowe, Jr., George M., 277 Military Road, Buffalo 7, N. Y.

SPREADERS, ROAD (Gravel, Salt, Sand).
See Sanders, Road

SPRINGS, Helper

Automotive Aids Corp., 3526 W. Fort St., Detroit 16, Mich.
Laher Spring & Tire Corp., 2615 Magnolia St., Oakland 7, Calif.
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill.
Rowland, Inc., Wm. & Harvey, Lewis & Tacony Sts., Frankford, Philadelphia 24, Pa.
Service Spring Co., Box 638, Indianapolis 6, Ind. "Service-Indianapolis."
St. Louis Spring Co., Div. Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Trainer National Spring Co., New Castle, Ind.
Tuthill Spring Co., 760 W. Polk St., Chicago 7, Ill.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

SPRINGS, Leaf

Benz Spring Co., 321 N. W. Ninth Ave., Portland 9, Ore.
Betts Spring Co., 868 Folsom St., San Francisco, Calif.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill. (For cars, trucks, trailers and buses.)
Champ Spring Co., 2107 Chouteau Ave., St. Louis, Mo. "Champion."
Cincinnati Auto Spring Co., 311 Central Ave., Cincinnati 2, Ohio. "Casco." (For trucks and trailers.)
Eaton Mfg. Co., Spring Div., 9771 French Road, Detroit, Mich.
Hoover Spring Co., 1335 Franklin St., San Francisco, Calif. "E. C." "E. C. V."
Iron City Spring Co., 2920 Smallman St., Pittsburgh, Pa.

**DAYTON
PRODUCTS**

are distributed through
National Wheel & Rim
Association Members

AKRON, Ohio.....Motor Rim Manufacturers Co.
ALBANY, N. Y.....Wheels Incorporated
ALBUQUERQUE, N. M.....Wheels & Brakes, Inc.
ATLANTA, GA.....Harris Automotive Service, Inc.
BALTIMORE, Md.....R. W. Norris & Sons
BIRMINGHAM, Ala., Cruise-Crawford Wheel & Rim Co.
BOSTON, Mass.....Harvey Sales & Service Company
BOSTON, Mass., New England Wheel & Rim Company
BUFFALO, N. Y.....Frey, The Wheelman, Inc.
CALGARY, Alta., Canada.....Fisk Tire Service, Ltd.
CHARLOTTE, N. C., Carolina Rim & Wheel Company
CHATTANOOGA, Tenn., Harris Automotive Ser., Inc.
CHICAGO, Ill.....Stone Wheel, Incorporated
CINCINNATI, Ohio.....Rim & Wheel Service Company
CLEVELAND, Ohio.....Motor Rim Manufacturers Co.
COLUMBUS, Ohio.....Hayes Wheel & Spring Service
CUMBERLAND, Md.....R. W. Norris & Sons
DALLAS, Texas.....Southwest Wheel, Incorporated
DAVENPORT, Iowa.....Stone Wheel, Incorporated
DAYTON, Ohio.....Rim & Wheel Service
DES MOINES, Iowa.....Des Moines Wheel & Rim Co.
DENVER, Colo.....Quinn & McGill Motor Supply
DETROIT, Mich.....H. & H. Wheel Service, Inc.
DETROIT, Mich.....Rim & Wheel Service Company
DOVER, Del.....R. W. Norris & Sons
EDMONTON, Can., Alberta Wheel Distributors, Ltd.
FARGO, N. D.....Pioneer Rim & Wheel Company
FARGO, N. D.....Wheel Service Company
FORT WAYNE, Ind.....Wheel & Rim Sales Co.
GRAND RAPIDS, Mich.....Rim & Wheel Service Co.
HAGERSTOWN, Md.....R. W. Norris & Sons
HARRISBURG, Pa.....Standard Wheel & Rim Co.
HARRISBURG, Va., Harrisonburg Wheel & Parts, Inc.
HARTFORD, Conn.....Connecticut Wheel & Rim Co.
HOUSTON, Texas, Southwest Wheel & Equipment Co.
INDIANAPOLIS, Ind.....Indiana Wheel & Rim Co.
JACKSONVILLE, Fla.....Southeast Wheel & Rim Co.
KANSAS CITY, Mo.....Borbeln, Young & Company
KNOXVILLE, Tenn.....Harris Automotive Service, Inc.
LOS ANGELES, Motor Rim & Wheel Service of Calif.
LOUISVILLE, Ky.....Auto Wheel & Rim Service
MEMPHIS, Tenn., Beller Wheel, Brake & Supply Co.
MILWAUKEE, Wis., Stone Manufacturing Company
MINNEAPOLIS, Minn.....Pioneer Rim & Wheel Co.
MONTREAL, Can., General Automobile Equip., Ltd.
NASHVILLE, Tenn., Beller Wheel, Brake & Supply Co.
NEWARK, N. J.....Wheels Incorporated
NEW HAVEN, Conn., Connecticut Wheel & Rim Co.
NEW ORLEANS, La., Southern Wheel & Rim Co.
NEW YORK, N. Y.....Wheels Incorporated
OKLAHOMA CITY, Okla., Southwest Wheel, Inc.
OMAHA, Nebr.....Morgan Wheel & Equipment Co.
OMAHA, Nebr.....Omaha Rim & Wheel Company
PEORIA, Ill.....Peoria Wheel & Rim Company
PHILADELPHIA, Pa.....Kay Wheel Sales Company
PHILADELPHIA, Pa., Thomas Wheel & Rim Co., Inc.
PITTSBURGH, Pa.....Wheel & Rim Sales Company
PORTLAND, Oregon.....Auto Wheel Service
PORTLAND, Oregon.....Six Robbles, Incorporated
PROVIDENCE, R. I., New England Wheel & Rim Co.
RALEIGH, N. C., Carolina Rim & Wheel Company
RICHMOND, Va.....Dixie Wheel & Rim Company
ROCHESTER, N. Y.....Frey, The Wheelman, Inc.
ST. LOUIS, Mo.....Borbeln, Young & Company
ST. PAUL, Minn.....Wheel Service Company
SALISBURY, Md.....R. W. Norris & Sons
SALT LAKE CITY, Utah, Henderson Wheel, Rim Serv.
SAN ANTONIO, Texas, Southwest Wheel & Equip. Co.
SAN FRANCISCO, Motor Rim & Wheel Ser. of Calif.
SEATTLE, Wash.....Six Robbles, Incorporated
SOUTH BEND, Ind., Wire & Disc Wheel Sales Co.
SOUTH HILLS, Va., South Hills Wheel & Parts, Inc.
SPOKANE, Wash., Bearing & Rim Supply Company
SPRINGFIELD, Ill., Illinois Wheel & Brake Company
SPRINGFIELD, Mo.....Borbeln, Young & Company
SYRACUSE, N. Y.....Colbourn Wheel & Rim Company
TACOMA, Wash.....Six Robbles, Incorporated
TOLEDO, Ohio.....Wheel & Rim Sales Company
TORONTO, Canada.....Harpham Brothers, Ltd.
TORONTO, Canada, Wheel & Rim Co. of Canada, Ltd.
VANCOUVER, B. C., Canada.....Wheel & Equip., Ltd.
WICHITA, Kansas.....Borbeln, Young & Company
WINCHESTER, Va.....R. W. Norris & Sons
WINNIPEG, Can., Automobile Supply Company, Ltd.
WINNIPEG, Canada, Fort Garry Tire & Service, Ltd.
WINSTON-SALEM, N. C., United Automotive Service

SPRINGS, Leaf—continued

Laher Spring & Tire Corp., 2615 Magnolia St., Oakland 7, Calif.
 Liggett Spring & Axle Co., Monongahela, Pa. (Trailer.)
 Maremont Automotive Products, Inc., S. Ashland at 16th St., Chicago, Ill. (Auto, truck, bus and trailer.)
 Mather Spring Co., 939 Wolcott Blvd., Toledo 10, Ohio.
 Rowland, Inc., William & Harvey, Lewis & Tacony Sts., Frankford, Philadelphia 24, Pa.
 St. Louis Spring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo. "Moog."
 Service Spring Co., Box 638, Indianapolis 6, Ind. "Service-Indianapolis."
 Standard Steel Spring Co., Coraopolis, Pa.
 Trainor National Spring Co., Box 391, New Castle, Ind.
 Triangle Auto Spring Corp., Maloney Rd. & B. & O. R. R., Dubois, Pa.
 Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.
 United States Spring & Bumper Co., 4951 Alcoa Ave., Los Angeles 11, Calif.
 Vall Spring Works, Inc., P. O. Box 4008, Broad Creek Sta., Norfolk, Va.
 Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

STANDS, Adjustable

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
 Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
 Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
 Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
 Cochran Mfg. Co., 1440 E. Grand Ave., South, San Francisco, Calif.
 Evans Reamer & Machine Co., New Livingston, Ohio.
 Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
 Toledo Pressed Steel Co., 397 Phillips Ave., Toledo 12, Ohio. (Folding.)
 Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 3, Minn.
 Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Folding.)
 Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Horse.)
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

STANDS, Axle Repair (Rear)

See Stands, Engine Transmission Repair

STANDS, Body Parts Repair

Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Reck-Rack."

STANDS, Engine Transmission Repair

Cam Tool Co., 288 22nd St., Oakland 12, Calif. "Kaasco."
 Cleveland Pneumatic Tool Co., Automatic Div., 3781 E. 77th St., Cleveland 5, Ohio. "Clayborne."
 Curtiss & Smith Mfg. Corp., 125 E. 4th St., Pottstown, Pa. "C S."
 Drum Jack Corp., 3781 E. 77th St., Cleveland 5, Ohio.
 Evans Reamer & Machine Co., New Lexington, Ohio.
 K & W Products, Inc., 8319 Allport Ave., Whittier, Calif. "K & W."
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 Montague Equipment Co., 615 McKaig Ave., Troy, Ohio. "All Point."
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
 Worthington Pump & Machinery Corp., Dunellen Works, 8, 2nd St., Dunellen, N. J.

STANDS, Portable Tool and Parts

All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill.
 Angle Steel Stool Co., 55 Oak St., Plainwell, Mich.
 Arasco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
 Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
 Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
 Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Handy Andy."
 Cornwell Quality Tools Co., Mogadore, Ohio.

Cutler Metal Products Co., 1029 Line St., Camden, N. J.
 Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM Rotabin."
 Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco Porto-Bench."
 Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
 Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. "Clean-Tote."
 Huot Mfg. Co., 550 N. Wheeler Ave., St. Paul, Minn.
 Kennedy Mfg. Co., N. Harrison St., Van Wert, Ohio.

SAVE MAINTENANCE COSTS MANPOWER

1. BENNETT FLEETMETER GASOLINE PUMPS REDUCE FUELING EXPENSE BY

- Speeding Truck Fueling — Saving Manpower
- Protecting against losses
- Providing accurate records



2. ECO AUTOMATIC TIREFLATORS HELP CUT TIRE MAINTENANCE COSTS BY

- Eliminating "inflate and check" guess-work
- Helping to spot tire troubles assuring greater tire mileage
- Speeding tire inflation — saving manpower



JOHN WOOD COMPANY

BENNETT PUMP DIVISION

MUSKEGON, MICHIGAN • TORONTO, ONTARIO
 OFFICES IN PRINCIPAL CITIES

JOHN WOOD Est. 1867

STANDS, Portable Tool & Parts—cont.

Lincoln Engrg. Co., 5701 Natural Bridge Ave., St. Louis 20, Mo.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Manufacturing Equip. & Engrg. Co., 553 Waverly St., Framingham, Mass. "Meeco."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
P & C Hand Forged Tool Co., Box S, Milwaukie, Ore.
R & L Mfg. Co., 1945 N. 12th St., Toledo 1, Ohio. (Sole distributors, Lisle Corp., 809 E. Main St., Clarinda, Iowa.)

Service Caster & Truck Corp., 231 S. La Salle St., Chicago 4, Ill. (Elevating.)
Standard Pressed Steel Co., Jenkintown, Pa. "Hallowell."
Wilson, K. R., 215 Main St., Buffalo 2, N. Y.

STARTING MOTOR DRIVE PARTS—See Parts, Starting Motor Drive

STARTING MOTORS—See Motors, Starting

STEAM CLEANERS, See Cleaners, Engine, Chassis and Fender

STEEL or IRON, Angle, Channel and Tee

Atlantic Steel Co., 16th & Mecalun Sts., Atlanta 1, Ga. "Dixisteel." (Steel.)

Calumet Steel Div. of Borg-Warner Corp., 11 St. & Wentworth Ave., Chicago Heights, Ill.
Hynes Steel Products Co., 3760 Oakwood Ave., Youngstown, Ohio. (Angle steel.)
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill.
Jones & Laughlin Steel Corp., Jones & Laughlin Bldg., Pittsburgh, Pa. (Steel.)
Kawneer Co., 1105 N. Front St., Niles, Mich.
Precision Shapes, Inc., 15 Washington Ave., Suffern, N. Y.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; 1600 E. Euclid Ave., Detroit, Mich. (Iron.)
United States Steel Co., 525 Wm. Penn. Pl., Pittsburgh 30, Pa. "U.S.S."



MAKE "Short Work" OF REPAIRS
and SERVICING with

**HYPRESSURE Jenny
STEAM
CLEANER**

By Hypressure Jenny steam cleaning before repairs, you can shorten vehicle lay-up time as much as 40%—the amount of time which national time studies show is lost on jobs where high-priced mechanics must fight grease and dirt with outmoded scrapers, brushes, solvents, etc!

You can clean chassis and engines for service and repair, or prepare bodies for repainting, in one-tenth the time required by hand methods; and cleaning is so thorough that cracked or worn parts show up for correction before costly failures occur. In fact, Jenny has so many time and money-saving uses around a fleet service shop, that it's a "must" for economical fleet maintenance.

Find out how Jenny can help to keep your fleet "on the go." Write for booklet, "1001 Ways to Extra Profit with Hypressure Jenny." There's no obligation; so why not do it now?



HYPRESSURE JENNY DIVISION

**Homestead Valve
Manufacturing Company
"Serving Since 1892"**

P. O. Box 90

Coraopolis, Pa.

STEEL, Sheet

Alan Wood Steel Co., Conshohocken, Pa. "A. W. Dynalloy," "Permaclad." (Stainlessclad.)
American Nickeloid Co., Peru, Ill. (Nickel, chrome, copper and brass plated.)
Apollo Metal Works, Inc., Clearing Station, Chicago 38, Ill. (Chromium, nickel, copper or brass plated.)
Armco Steel Corp., 703 Curtis St., Middletown, Ohio. (Hot and cold rolled; also electrical.)
Bethlehem Steel Co., Bethlehem, Pa. "Beth Cu Loy."
Caine Steel Co., 1820 N. Central Ave., Chicago 39, Ill.
Coatesville Plate Washer Co., 1644 Widener Bldg., Philadelphia 7, Pa.
Continental Steel Corp., 1108 S. Main St., Kokomo, Ind.
Detroit Steel Corp., 1025 S. Oakwood Ave., Detroit 9, Mich. (Hot & cold rolled.)
Eastern Stainless Steel Corp., P. O. Box 1975, Baltimore, Md. (Stainless.)
Great Lakes Steel Corp., Ecorse, Detroit 29 Mich. (Enameled.)
Great Lakes Steel Corp., N-A-X Alloy Div., Detroit 29, Mich. "N-A-X."
Hynes Steel Products Co., 3760 Oakwood Ave., Youngstown, Ohio.
Ingersoll Steel, Div. Borg-Warner Corp., New Castle, Ind. (Carbon, alloy & stainless clad.)
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. (Also "Hi-Steel," "Cor-Ten" [Licensee], 4-Way Safety Plate.)
Jones & Laughlin Steel Corp., Jones & Laughlin Bldg., Pittsburgh, Pa.
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
Lukens Steel Co., Coatesville, Pa.
Mahoning Valley Steel Co., McKees Lane, Niles, Ohio.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio. "Enduro" (Stainless); "Republic."
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
Sharon Steel Corp., Sharon, Pa. "Sharon-steel."
Superior Sheet Steel Co., Canton, Ohio.
Superior Steel Corp., 3112 Grant Bldg., Pittsburgh 19, Pa. "Su-Veneer." (Copper, monel or nickel coated.)
Tennessee Coal, Iron & Railroad Co., Brown-Marx Bldg., Birmingham, Ala. "USS Cor-Ten."
United States Steel Co., 525 Wm. Penn. Pl., Pittsburgh 30, Pa. "USS," "USS Cor-Ten."
Universal-Cyclops Steel Corp., Station St., Bridgeville, Pa.
Washington Steel Corp., Griffith & Woodland Aves., Washington, Pa. "Micro Roll." (Stainless.)
Weirton Steel Co., Weirton, W. Va.
Wheeling Steel Corp., Wheeling Steel Bldg., Wheeling, W. Va.

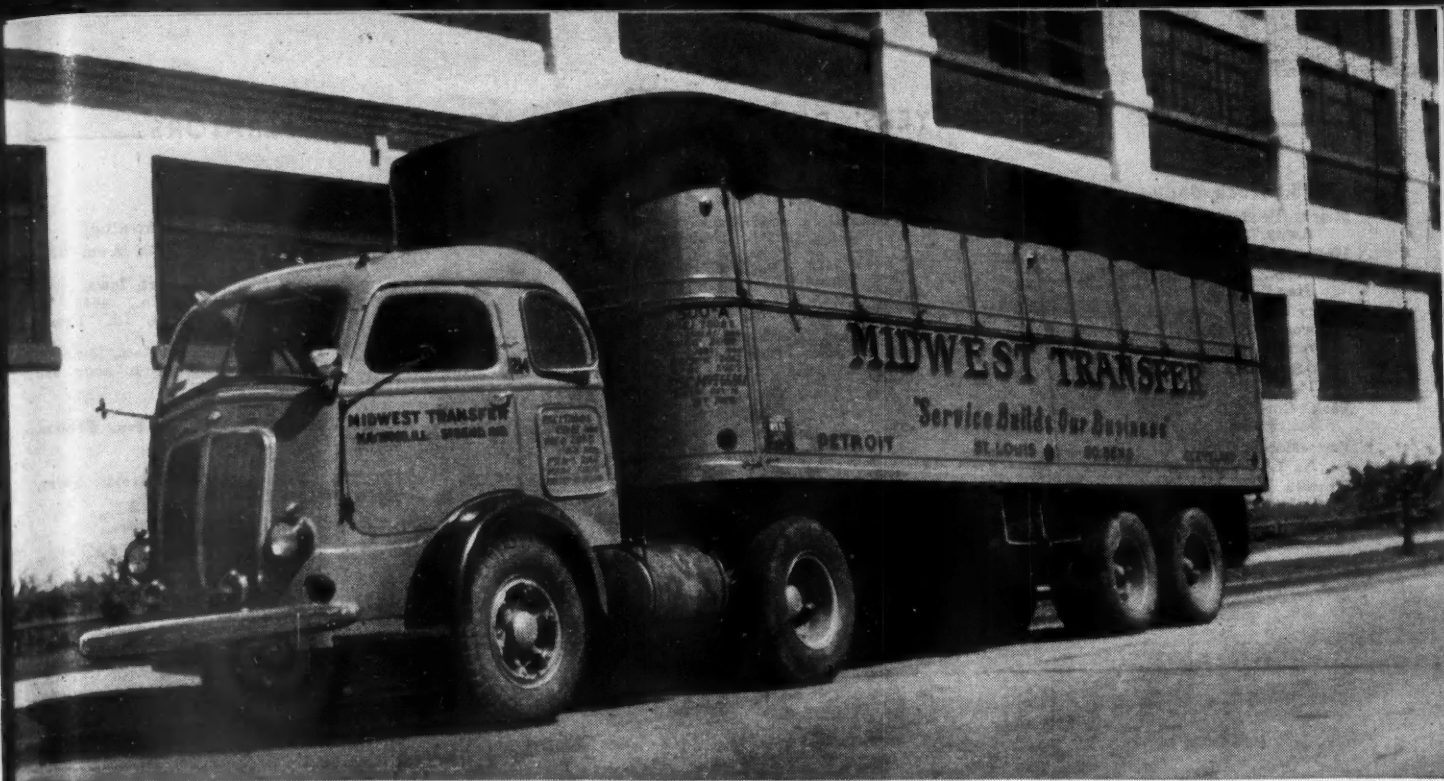
STEERING GEARS, See Gears, Steering

STENCILS, For Lettering

Dicks Co., C. O., Detroit, Mich. (Lettering for trucks; cut paper masks for spraying.)

STEPS, Truck Body

Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y.
Cam Tool Co., 288 22nd St., Oakland 12, Calif. "Kasco." (Folding.)
Extendo Corp., 4950 Melrose Ave., Los Angeles 27, Calif.



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STANOLUBE HD-M is recommended for all internal combustion engines. It meets U. S. Army specification MIL-0-2104. This lubricant provides excellent cleanliness, low wear rate, and low oil consumption under severe operating conditions. Available in all SAE grades.

STANOLUBE S-1 is recommended for use in automotive, diesel, or gasoline engines where other heavy-duty oils cannot control deposits caused by operational severity or adverse fuel quality. It meets requirements of MIL-0-2104 and the requirements for "series 1" type oils as well. Available in all SAE grades.

STANOLUBE HLA is recommended for use in supercharged diesel engines and in other engines that operate under the most adverse conditions. It meets the requirements of MIL-0-2104 and the requirements of "series 2" type oils. Available in SAE 10 and SAE 30 grades.

STANDARD OIL COMPANY (INDIANA)



STEPS, Truck Body—continued

Mesco Products, Crete, Neb. "Mesco Fold-Away." (Folding.)
Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill. "Handy Step." (Side or rear.)
Safety Step Co., 1041 N. Mansfield Ave., Hollywood 88, Calif. "Saf-T-Step." (Side and rear.)
Truk-Step Co., 928 S. Flower St., Los Angeles 15, Calif.
Turk Corp., C. K., 1122 Meshawaka Ave., South Bend 15, Ind. "Caravan." (Folding.)
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Hangs on tire.)
Western Motors, 4834 Cermak Rd., Cicero, Ill.

STRAIGHTENERS, Axle

Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill. "Frame Master."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

STRAIGHTENERS, Frame

(See Also Presses, Straightening)
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill. "Frame Master."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Hydraulic, combination body and frame.)

STRAIGHTENERS, WHEEL, See Presses, Straightening (Wheel)

STRIPPERS, Paint, See Removers, Paint, Enamel and Varnish

**A NEW DIMENSION
IN
CLUTCH SERVICE**

You get *more miles* of trouble-free service from these new, complete clutch units. Take *less time* to install, too! And you're *sure* of full clutch release and smooth clutch engagement.

Cost the Same . . .

. . . although you pay only the *regular* price for the new Accurate Powerflex clutch plate and the rebuilt Re-Nu assembly, you get the *PLUS VALUES* of a matched, mated, tested, balanced, complete clutch unit at *no extra cost!*

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MANUFACTURERS OF THE POWERFLEX CLUTCH PLATE

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REBUILDERS OF GUARANTEED CLUTCH ASSEMBLIES



Consist of a

New POWERFLEX Plate

PACKAGED TOGETHER WITH A

Rebuilt RE-NU Assembly

MATCHED • MATED • TESTED

BALANCED • COMPLETE

CLUTCH UNITS



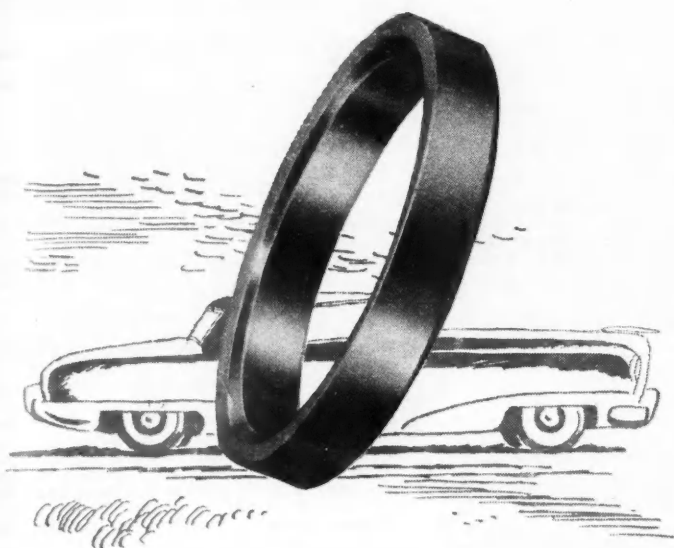
STUDS

Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohio.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Central Screw Co., 3501 S. Shields Ave., Chicago 9, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Chicago Screw Co., 1026 S. Homan Ave., Chicago 24, Ill.
Clark Bros. Bolt Co., Canal St., Milldale, Conn.
Cleveland Cap Screw Co., 2921 E. 79th St., Cleveland 4, Ohio. "Cle-Cap."
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Cyl. head, manifold, oversize and wheel.)
Ferry Bros., 3167 Fulton Rd., Cleveland 9, Ohio.
Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio. "Shinylands."
Ferry Screw Products, Inc., E. W. Brookpark (Berea), Ohio.
Hartford Machine Screw Co., 476 Capitol Ave., Hartford, Conn.
Haskell Mfg. Co., Wm. H., 24 Commerce St., Pawtucket, R. I.
Haydon A. & M., 304 N. 22nd St., Philadelphia 3, Pa.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio. (Engine and chassis.)
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Lock Thread Corp., 2832 E. Grand Blvd., Detroit 11, Mich. (Self-locking thread-licensors.)
Lundberg Screw Products Co., P. O. Box 1318, Lansing 4, Mich.
Mac It Parts Co., Shippen & Liberty Sts., Lancaster, Pa.
Mid-West Screw Products Co., 3662 Park Ave., St. Louis 10, Mo.
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio. (Also "Lok-Thred" self-locking—Henssees.)
Nelson Stud Welding Div. of Morton Gregory Corp., Toledo Ave. & E. 28th St., Lorain, Ohio. (End-welded; sole distributor Nelson Sales Co., Toledo Ave. & E. 28th St., Lorain, Ohio.)
O'Hara Bros. Machine Co., 6533 Upland St., Philadelphia 42, Pa.
Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.
Ottemiller Co., Wm. H., Pattison St. & M. & P. R. R., York, Pa.
Pawtucket Mfg. Co., 327 Pine St., Pawtucket, R. I.
Prior Products, Inc., 4928 Racell St., Dallas, Tex.
Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.
Rockford Screw Products Co., 2501 Ninth St., Rockford, Ill.
Sterling Bolt Co., 209 W. Jackson Blvd., Chicago 6, Ill.
Wasmer Bolt & Screw Corp., 1800 Athens Ave., Cleveland, Ohio.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

SUSPENSION UNITS, AXLE (FOR TRAILERS)—See Axle Suspension Units, for Trailers

SWEEPERS, Road

Austin-Western Co., Aurora, Ill.
Columbia Engineering Service Co., 173 14th St., San Francisco, Cal. (Magnetic Type.)
Elgin Sweeper Co., Elgin, Ill.
Frink Sno-Plows, Inc., Clayton, Thousand Isl. N. Y.

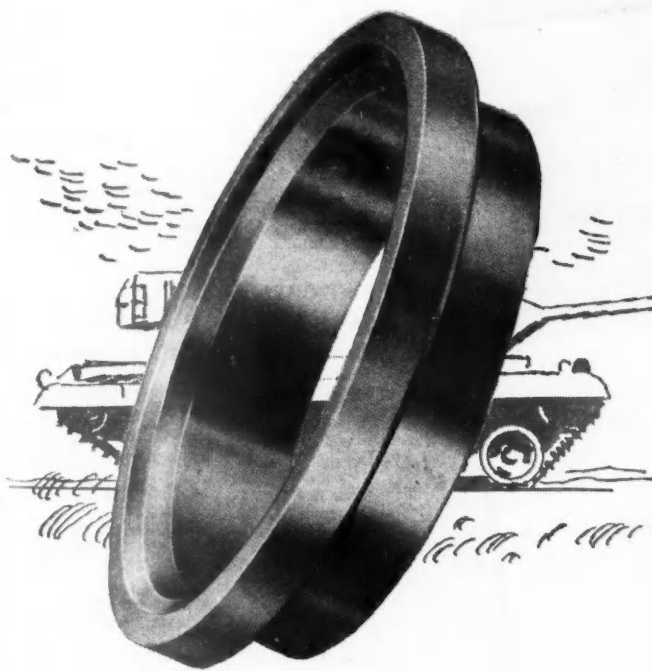


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For fifty years Thompson Products has been making precision parts for cars, buses, trucks, tractors and industrial engines, both gasoline and diesel.

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Along with valve seat inserts, Thompson's Special Products Division manufactures piston pins and cylinder sleeves—for the finest aircraft engines, heavy duty trucks and tractors, industrial engines as well as for passenger cars.

If you are having trouble with engine parts—if you need a better, more dependable supplier, just write or call Special Products Division, Thompson Products, Inc., 2196 Clarkwood, Cleveland 3, Ohio. You'll soon learn what car and plane makers have known for 50 years—you can count on Thompson.

Thompson Products, Inc.

**SPECIAL PRODUCTS
DIVISION**

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**PISTON PINS • VALVE SEAT INSERTS • CYLINDER
SLEEVES • WATER PUMPS • U-FLEX PISTON RINGS • CAST
IRON PISTONS • VALVE RETAINER CAPS AND LOCKS**

SWEEPERS, Road—continued

Grace Mfg. Co., 7000 S. Lanar St., Dallas, Tex.
Hough Co., Frank G., Libertyville, Ill.
Little Giant Products, Inc., 1530-60 N. Adams St., Peoria, Ill.
Wilshire Power Sweeper Co., 526 W. Chevy Chase, Glendale 4, Calif. (Road & floor.)

SWITCHES, Direction Indicating Signal

Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill.
Carter Parts Co., 213 Institute Pl., Chicago 10, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.

Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Saginaw Steering Gear Div., General Motors Corp., Clinton and Saginaw Sts., Saginaw, Mich.
Signal-Stat Corp., 523-39 Kent Ave., Brooklyn 11, N. Y.

Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich.
United Specialties Co., Mitchell Div., Shelmire & Edmund Sta., Philadelphia 36, Pa.

SWITCHES, Floor or Foot

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built." (Headlight dimming.)
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Headlight dimming, foot operated.)
Carter Parts Co., 213 Institute Pl., Chicago 10, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., Anderson, Ind. (Foot dimming.)
Electric Auto Lite Co., Toledo 1, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Headlight dimming.)
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco." (Headlight dimming.)
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y. (Headlight dimming.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kem Mfg. Co., 20-21 Wagarow Rd., Fair Lawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." (Headlight dimming.)
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
New York Coil Co., 42 Second Ave., Phoenixville, Pa. "Nycco." (Headlight dimming, foot operated.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Headlight dimming.)
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Headlight dimmer.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind. (Headlight dimming, foot operated.)
Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak." (Headlight dimming.)
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

SWITCHES, Heater

Carter Parts Co., 213 Institute Pl., Chicago 10, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Culver-Stearns Mfg. Co., 53 Grafton St., Worcester 8, Mass.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kem Mfg. Co., 20-21 Wagarow Rd., Fair Lawn, N. J.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

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5. Fitted with cast iron clearances.
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9. No grain growth.
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SWITCHES, Ignition

Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Bendix-Scintilla—See Scintilla Magneto Div. of Bendix Aviation Corp.
Briggs & Stratton Corp., 2711 N. 18th St., Milwaukee 1, Wis.
Carter Parts Co., 213 Institute Pl., Chicago 10, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill.

Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
Engineered Products, Inc., Denver, Colo. "Oiltrol"—activated switch.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."

Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (For Ford, Chevrolet and Plymouth cars.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Scintilla Magneto Div. Bendix Aviation Corp., Sherman Ave., Sidney, N. Y. "Bendix."
Soreng-Manegold Co., 1901 Clybourn Ave., Chicago, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Synchro-Start Products, Inc., 1046 W. Fullerton St., Chicago 14, Ill. (Automatic.)
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.

SWITCHES, Ignition (Cut-Off)

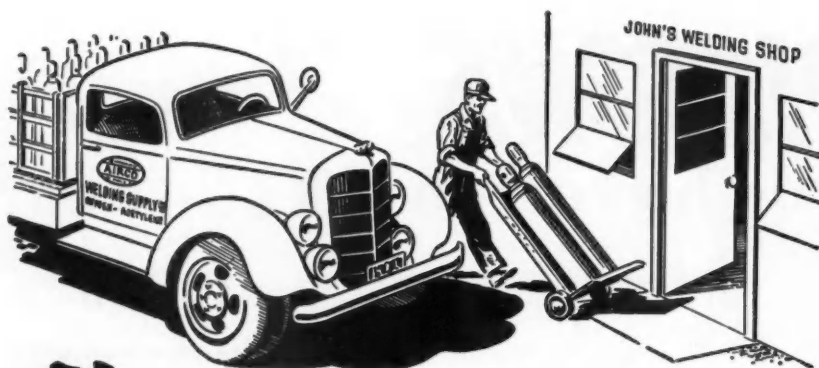
Clapp Corp., 2519 Hawes St., Dallas 9, Texas.
Durakool, Inc., 1010 N. Main St., Elkhart, Ind. "Tipover."
Engineered Products, Inc., 1224 Speer Blvd., Denver, Colo. "Oiltrol." (Activated switch.)
Murphy, Frank W., Tulsa, Okla.
Reynolds Electric Co., 2650 W. Congress St., Chicago, Ill.
Robertshaw-Fulton Controls Co., Knoxville 4, Tenn.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Synchro-Start Product Inc., 1046 W. Fullerton St., Chicago, Ill.
Transportation Safety Appliances, Inc., 343 E. Dearborn St., Chicago 4, Ill.
Viking Instrument Co., East Haddam, Conn.

SWITCHES, Light

Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill. "Amko."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Carter Parts Co., 213 Institute Pl., Chicago 10, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Connecticut Telephone & Electric Corp., Tiffany Div., 70 Britannia St., Meriden, Conn.
Culver-Stearns Mfg. Co., 53 Grafton St., Worcester 8, Mass.
Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis. "C-H."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind. (For dome lights.)
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Electric Auto-Lite Co., Owen-Dyneto Corp., 1930 Park Ave., Syracuse, N. Y.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Rohden Mfg. Co., 4739 W. Montrose St., Chicago 41, Ill. (Panels)
Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.
Zaiger Corp., 689 Essex St., Lynn, Mass. "Hi-Amp."

SWITCHES, Starter

American Motor Products Co., Fond du Lac, Wis. "Ampeco."
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.



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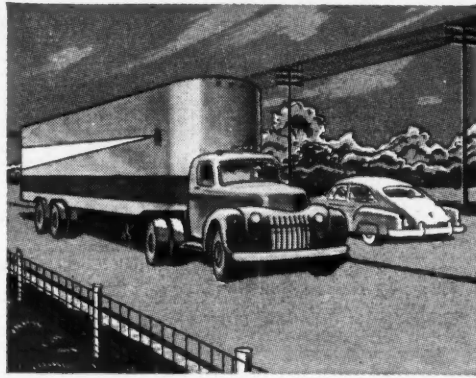
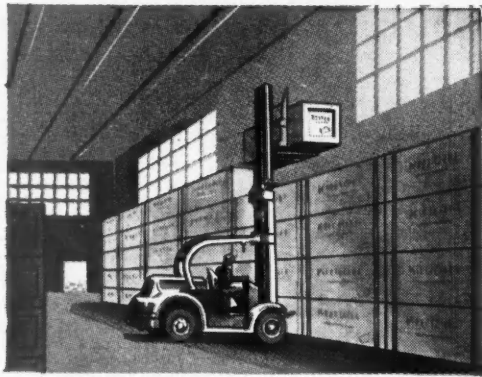
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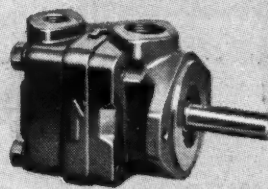
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COMMERCIAL CAR JOURNAL, November, 1951

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SWITCHES, Starter—continued

Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Delco-Remy Div., General Motors Corp., Anderson, Ind.
 Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
 Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite." (Solenoid.)
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Solenoid.)
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
 Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.

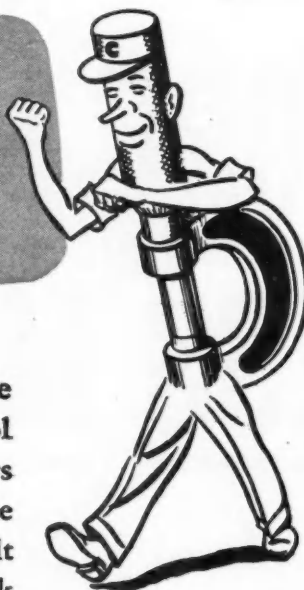
Leece-Neville Co., 5109 Hamilton Ave., Cleveland 14, Ohio. "L-N."
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Shurhit Products, Inc., Waukegan, Ill.
 Soreng Mfg. Corp., 1901 Clybourn Ave., Chicago 14, Ill.

Sorensen Mfg. Co., 32-31 57th St., Woodside, N. Y.
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

SWITCHES, Stop Light

American Motor Products Co., Fond du Lac, Wis. "Ampeco."
 Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
 Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Air.)
 Carter Parts Co., 213 Institute Pl., Chicago 10, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.
 Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
 Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
 Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
 Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan." (Trailer.)
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot."
 Murray Corp., Towson 4, Md.
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
 Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
 Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, Long Island, N. Y.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed."
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
 Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

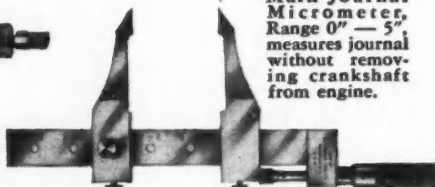
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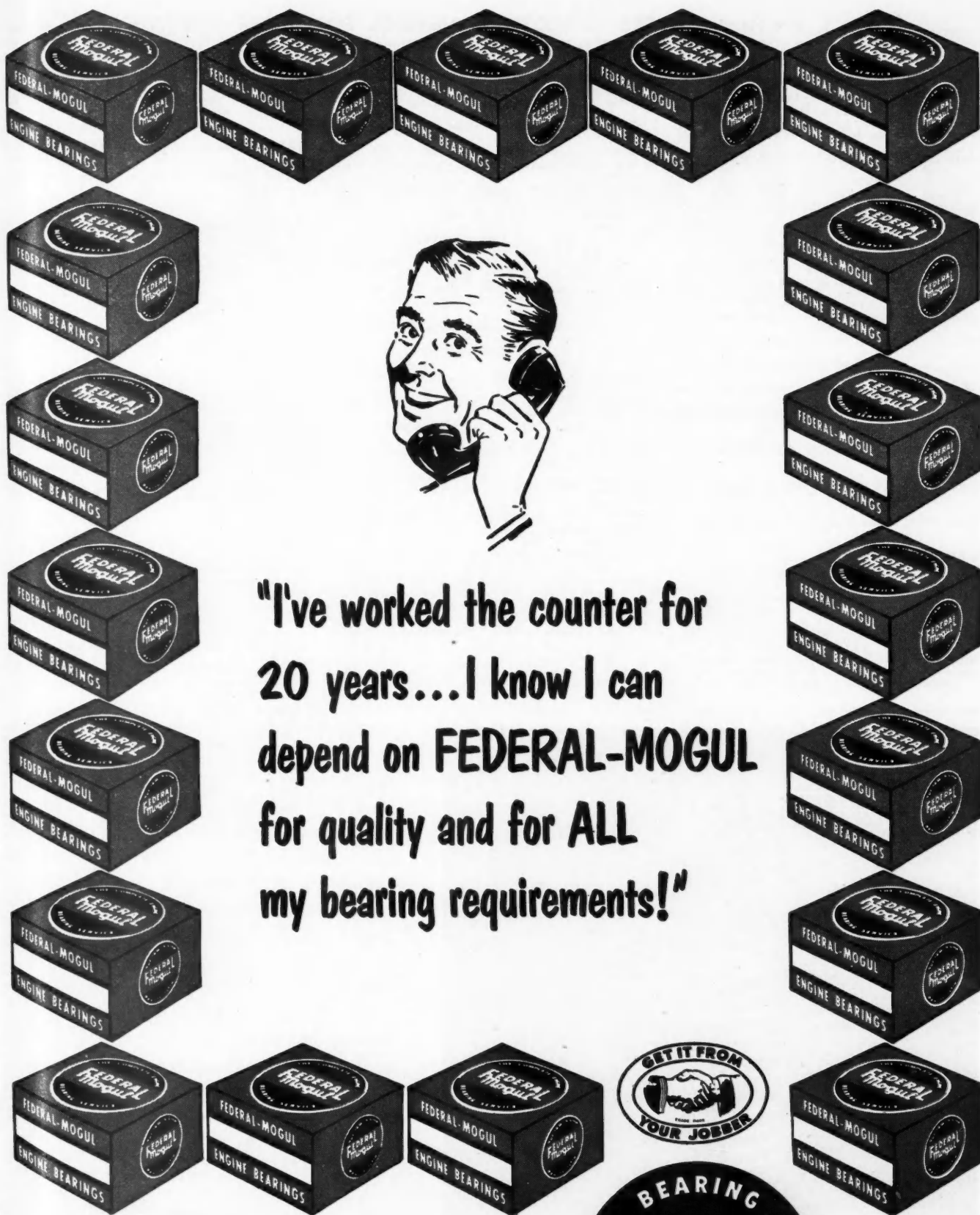
TACHOMETERS, Engine Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Electric.)
 Electro Products Co., 445 E. 189th St., New York 58, N. Y.
 King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa. (Electric.)
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Electric.)
 Weidenhoff, Inc., Joseph, Algona, Iowa (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

TACHOMETERS, Speed



AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
 Amthor Testing Instrument Co., 45a Van Sinderen Ave., Brooklyn 7, N. Y.
 Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.
 Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa. "Frahm," "Jagabl."



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Bristol Co., Waterbury 91, Conn.
 Esterline-Angus Co., P. O. Box 596, Indianapolis 6, Ind.
 Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
 Jones-Motrola Corp., 432 Fairfield Ave., Stamford, Conn. "Jones."
 Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
 Metron Instrument Co., 432 Lincoln St., Denver 9, Colo. (Electric.)
 Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
 Paramount Fabricating Co., 1644 W. Lafayette Ave., Detroit 16, Mich.
 Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
 Sticht Co., Herman H., 27 Park Place, New York, N. Y. "Standco."
 Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
 Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.
 Waltham Watch Co., 221 Crescent St., Waltham 54, Mass.
 Zernickow Co., O., 15 Park Row, New York 38, N. Y. "O-Z."

TACHOGRAPHS, See Recorders, Vehicle Movement

TAILGATE LOADERS, See Loaders, Truck (Elevating Tailgate)

TAIL PIPES, See Pipes, Tail and Exhaust

TAKE-OFFS, Power

Adams Engineering Co., 1969 E. 119th St., Cleveland 6, Ohio.
 Auburn Clutch Co., Div. of Dana Corp., 4100 Bennett Ave., Toledo 1, Ohio. (Clutch types.)
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill.
 Braden Winch Co., Box 1709, Tulsa 1, Okla.
 Comco Industries, Inc., First National Bank Bldg., Galion, Ohio. (Split shaft.)

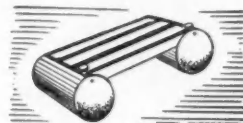
Chelsea Products Inc., 21 Buchanan St., Chelsea, Mich.
 Cotta Transmission Co., 2340 11th St., Rockford, Ill.
 Cousc Mfg., Inc., 300 Pacific St., Newark 4, N. J.
 Davey Compressor Co., Kent, Ohio.
 Daybrook Hydraulic Corp., Bowling Green, Ohio.
 Detroit Harvester Co., Detroit Div., 5450 W. Jefferson Ave., Detroit, Mich.
 Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. "Graybar."
 F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif. "Fabco."
 Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "F W D."
 Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW." (With hoist, winch and crane.)
 Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
 Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
 Hercules Steel Products Corp., Box 477, Galion, Ohio.
 Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
 Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
 Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
 McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 16, Mo. "Powers-American."
 Mobile Power, Inc., Box 997, Lansing, Mich.
 Perfection Steel Body Co., S. East St., Galion, Ohio.
 Rockford Clutch Div., Borg-Warner Corp., 1819 18th Ave., Rockford, Ill.
 St. Paul Hydraulic Hoist Div., Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn.
 Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lips."
 Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
 Tulsa Winch, Div. of Vickers, Inc., 823 E. First St., Tulsa 3, Okla.

Twin Disc Clutch Co., 1338 Racine St., Racine, Wis. (Hydraulic).
 Watson Co., H. S., 1316 67 St., Oakland 8, Calif. "Watson-Brown-Lipe."

TALC, TIRE, See Lubricants, Tire

TANK BODIES, See Tanks, Trailer and Truck Body

TANKS (Fuel Supply)



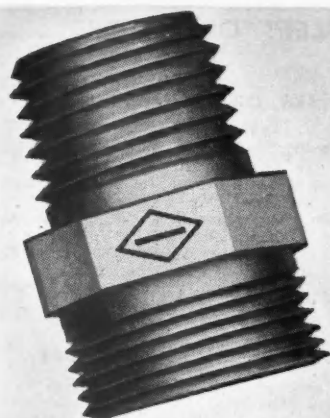
American Safety Tank Co., 2814 Mercier St., Kansas City 8, Mo.
 Anderson Co., O. L., 1847 E. Fort St., Detroit 7, Mich.
 Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y.
 Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
 Cutler Metal Products Co., 1025 Line St., Camden, N. J.
 Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
 The Lintern Corp., 29-2 Riverside Drive, Berea, Ohio.
 Michiana Products Corp., Sheet Steel Div., Michigan City, Ind.
 Michigan Fleet Equipment Co., 2350 Chicago Drive S. W., Grand Rapids, Mich.
 Motors Metal Mfg. Co., 5936 Milford Ave., Detroit 10, Mich.
 Prior Products, Inc., 4828 Racell St., Dallas, Tex.
 Snyder Tank Corp., 3773 Lake Shore Blvd. (P. O. Box 14), Buffalo 5, N. Y. (Truck.)



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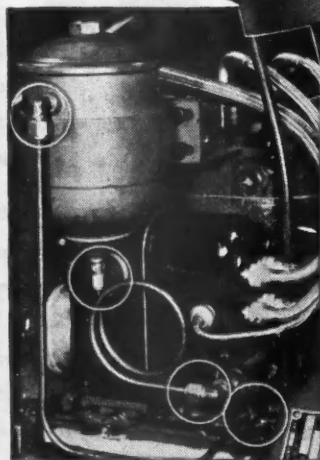
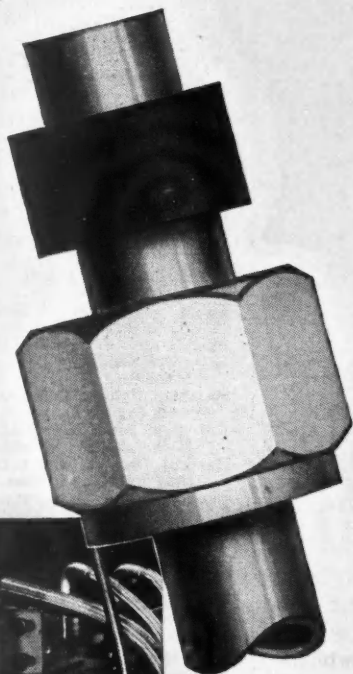




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stand up under the most severe
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Install Flex Fittings when making replacements, repairs or general overhauls. The vibration and shock absorbing sleeve makes them ideal for gasoline, oil, diesel oil and vacuum lines on trucks, buses, fleets. Flex Fittings are used extensively as standard equipment on trucks, buses, tractors, diesels, oil filter connections, fuel pumps, carburetors, etc.

sively as standard equipment on trucks, buses, tractors, diesels, oil filter connections, fuel pumps, carburetors, etc.

Ask for Catalog No. 344-C

Comparative Vibration Test

NUMBER OF VIBRATIONS IN CYCLES	20,000,000
Flare Fitting failed after 72,450 cycles	
Compression Fitting failed after 79,350 cycles	
Hi-Duty Fitting failed after 401,925 cycles	
FLEX FITTING showed no signs of failure after ...	21,424,500 cycles

MAJOR
VIBRATION



SHOCK

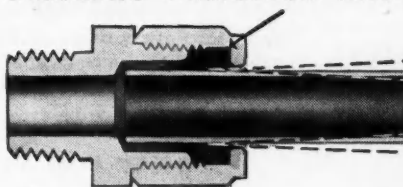


MINOR
TUBE MOVEMENT



Flex Fittings Make Joints Virtually Indestructible by Vibration... On tests where ordinary fittings failed after 73,000 cycles of vibration, Imperial Flex Fittings have withstood over 2,000,000 cycles without failure as indicated in the chart at left.

This Elastic Sleeve in Flex Fittings Absorbs Vibration and Shock...



permits tubing to flex back and forth through the angle shown... at the same time assures a positive, pressure-tight seal.

Easy to Install... All that is necessary is to slip nut and Flex sleeve over tubing. Then insert tubing into body as far as it will go and tighten nut to shoulder on body. No guesswork on how far nut should be screwed down. On sizes larger than 1/2" O.D. and where higher pressures are involved, end of tubing should be belled slightly.

Flex Fittings Can Be Used with All Kinds of Tubing... Proved by Extensive Use.

THE IMPERIAL BRASS MFG. CO.
1209 West Harrison Street, Chicago 7, Illinois

Brass Fittings • Flexible Lines • Shut-off Valves
Tube Working Tools • Service Aids • Barrel Faucets



IMPERIAL

TANKS (Fuel Supply)—continued

Standard Steel Works, 16th & Howell Sts., North Kansas City 16, Mo.
Whitehead & Kales Co., 55 Haltiner St., River Rouge, Mich. "W. & K." (Auxiliary truck.)

TANKS, Inner Tube Testing

Balerank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 18, Cal. "Brown."
Bishman Mfg. Co., Osseo, Minn.
Dover Stamping Co., 24 Lake St., Somerville, Mass.

Independent Iron Works, 84 Pine St., Oakland 20, Calif.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
Miller Rubber Products Co., 1254 S. High St., Akron, Ohio.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Cal. "Boyco."

TANKS, METAL PARTS WASHING. See Washers (Metal Parts)

TANKS, Oil (Portable)

(Tanks and pumps on wheels)

Bowser, Inc., S. F., 1302 E. Creighton Ave., Ft. Wayne, Ind.
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., Springfield, Mass.
"Gilbareo Narro-Lube."
Grigg Specialty Tools, 7523 Santa Fe Ave., Huntington Park, Calif.
Phillips Pump & Tank Co., 1432 State Ave., Cincinnati 4, Ohio.

TANKS, Trailer and Truck Body

Alloy Products Corp., 1045 Perkins Ave., Waukesha, Wis. "Lifetyme." (Truck.)
Andrew Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.
Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa.
Beall Pipe & Tank Corp., 12005 N. Burgard St., Portland, Ore.
Boardman Co., 1401 W. 11th St., Oklahoma City, Okla.
Boston Steel & Mfg. Co., 112 Bryant St., Malden 48, Mass.
Butler Mfg. Co., 13th St. & Eastern Ave., Kansas City 3, Mo.
Chicago Stainless Equipment Corp., 5001 Elston Ave., Chicago 30, Ill. (Stainless steel, for milk.)
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Outler Metal Products Co., 1029 Line St., Camden, N. J.
Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill.
Felker Bros. Mfg. Co., 22 N. Chestnut St., Marshfield, Wis.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW." (Truck.)
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass. "Universal."
Gramm Trailer Corp., First Lima Bldg., Lima, Ohio.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Independent Iron Works, Eighth & Pine Sts., Oakland 20, Calif.
Industrial Steel Tank & Body Works, 5749 Landregan St., Oakland 8, Calif.
Joplin Body & Trailer, Inc., 720 E. 5th St., Joplin, Mo.
Kaustine Co., Perry, N. Y.
Kennedy Tank & Mfg. Co., 1201 Beecher St., Indianapolis 7, Ind.
Koven & Bro., L. O., 154 Ogden Ave., Jersey City, N. J.
Lang Co., 267 W. First South St., Salt Lake City 10, Utah.
Mohawk Metal Products Co., Frankfort, N. Y. (Oil.)
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Niles Steel Tank Co., Niles, Mich. "Life-time."
Olson Mfg. Co., 4000 Warm Springs Ave., Boise, Idaho.
Pacific Coast Engr. Co., Oak & Clement Sts., Alameda, Calif. "Paceco" (To Order).
Pennsylvania Furnace & Iron Co., 316 Pine St., Warren, Pa.
Pfaudler Co., 100 West Ave., Rochester 3, N. Y.
Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
Providence Body Co., 750 Wellington Ave., Cranston, R. I. (Truck.)
Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa. (Truck.)
Rock Hill Body Co., W. Main St., Rock Hill, S. C. (Truck.)
Sharpsville Steel Fabricators, Inc., Sharpsville, Pa. (Truck.)
Spartan Coach & Mfg. Co., 613 N. Centerville Rd., Sturgis, Mich. (Milk transport.)
Springfield Body & Trailer Co., 1631 College St., Springfield, Mo.
Stainless & Steel Products Co., 1000 Berry Ave., St. Paul 4, Minn. "Certified." (Stainless steel.)
Standard Steel Works, 16th & Howell Sts., North Kansas City 16, Mo.
Steel Products Co., P. O. Box 1007, Savannah, Ga. "Weld Bilt."



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**FACTORY NEW
GENUINE
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and
PARTS!



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*REG. U.S. PAT. OFF.

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When you install a new Bendix Drive, return the used drive together with the credit exchange tag to the Bendix Central Distributor. It's worth 50¢ to you in merchandise credit.



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"Driver Dis-ease" CAN BE COSTLY!



MONROE E-Z Ride* Truck Seats Keep Operators Fit and Alert

A worn-out truck driver is a bad safety risk. According to a reliable survey, 1 driver in 3 who had an accident caused by falling asleep was a truck driver.

Truck accidents are plenty costly in cargo and vehicle loss. Expensive lawsuits often result. And you, Mr. Fleet Owner, are the loser!

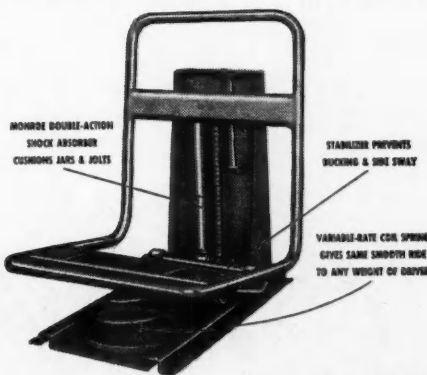
Monroe E-Z Ride Truck Seats keep your drivers feeling more fit—alert against accident dangers. Fatiguing, back-busting jolts are cushioned by a Monroe Double-Action Shock Absorber, plus a variable-rate coil spring that gives any weight of driver the same smooth ride.

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*Reg. U.S. Pat. Off.



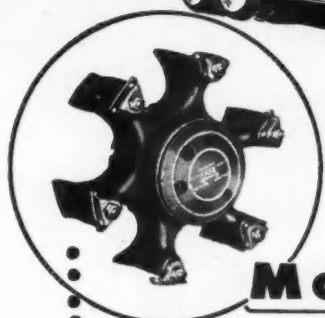
When replacing shock absorbers on your cars or trucks, always specify Monroe Direct-Acting Airplane-Type Shock Absorbers—the choice of leading automotive engineers.



E-Z Ride Truck Seat with cushions removed.

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Rolling the Big Rigs day and night safely to destination over the Nation's vast highway network demands the qualities combined in Erie Wheels . . . Rugged Strength, Toughness, Lightweight . . . Malleable Iron Resiliency to absorb road shocks . . . Full Tubular Spokes to prevent unbalance. For 25 years Erie Wheels have stood high in the Tradition of Transport.

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TANKS, Trailer & Truck Body—cont'd

Stoughton Cab & Body Co., 408 E. South St.,
Stoughton, Wis. (Milk)
Sturm & Sons, Inc., J., 864 Clinton Ave.,
Newark, N. J.
Truck Welding & Equipment Co., 739 Ninth
Ave., N., Seattle 9, Wash. (Truck.)
Veenema & Wieggers, Inc., 241 N. Tenth St.,
Paterson 2, N. J.
Wentworth & Irwin, Inc., 123 N. E. Oregon
St., Portland 14, Ore. (Truck.)
Wichita Body & Equipment Co., 1926 N. Broad-
way, Wichita 12, Kan. (Live fish trans-
port.)
Wilco, Inc., 400 E. Decatur St., Kenton, Ohio.

TANKS and SYSTEMS, Gasoline and Oil Storage

Biggs Boiler Works Co., 1007 Bank St.,
Akron, Ohio.
Birmingham Tank Co., Div. of Ingalls Iron
Works Co., 620 Ave. D, Birmingham, Ala.
"Birtank." (Tanks.)
Bowser, Inc., 1302 E. Creighton Ave., Fort
Wayne, Ind.
Butler Mfg. Co., 13th St. & Eastern Ave.,
Kansas City 3, Mo.
Caldwell Co., W. E., 202 E. Brandeis St.,
Louisville, Ky.
Chicago Boiler Co., 1965 Clybourn Ave., Chi-
cago 14, Ill. "Red Head." (Tanks.)
Columbian Steel Tank Co., 1409 W. 12th St.,
Kansas City 7, Mo.
Cutler Metal Products Co., 1029 Line St.,
Camden, N. J.
Eaton Metal Products Corp., 13th St. & Willb
Ave., Omaha 2, Nebr.
Erie Meter Systems, Inc., Pearl St. & Wag-
ner Ave., Erie, Pa. (Systems.)
Farrell Mfg. Co., Joliet, Ill.
Good-All Electric Mfg. Co., 112 W. First St.,
Ogallala, Neb.
Heil Co., 3000 W. Montana St., Milwaukee 1,
Wis.
Independent Iron Works, 8th & Pine Sts., Oak-
land 20, Calif.
Kauastine Co., Perry, N. Y. (Tanks.)
Kennedy Tank & Mfg. Co., 1201 Beecher St.,
Indianapolis 7, Ind.
Koven Bros., Inc., L. O., 154 Ogden Ave.,
Jersey City, N. J.
Mohawk Metal Products Co., Frankfort, N. Y.
Morrison Bros. Co., 2401 Elm St., Dubuque,
Iowa.
National Store Specialty Co., Bareville, Pa.
"Pennsylvania."
Niles Steel Tank Co., Niles, Mich. "Life-
time."
Petroleum Systems, Inc., 2914 E. Grand Blvd.,
Detroit 2, Mich. (Hydraulic flotation sys-
tem.)
Phillips Pump & Tank Co., 1432 State Ave.,
Cincinnati 4, Ohio.
Progress Mfg. Co., Oil Equipment Div., Arthur,
Ill.
Quaker City Iron Works, Aramingo & On-
tario Sts., Philadelphia 34, Pa.
Richmond Engineering Co., Seventh & Ho-
pital Sts., Richmond 1, Va. "Reco."
Sharpsville Steel Fabricators, Inc., Sharps-
ville, Pa.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd.,
San Gabriel, Calif. "Grover."
Standard Steel Works, 16th & Howell Sts.,
North Kansas City 16, Mo.
United States Steel Products Co., Boyle Mfg.
Div., 5100 Santa Fe Ave., Los Angeles 11,
Cal. "Boyco."
Western Metal Specialty Co., 1213 N. 62nd
St., Milwaukee 13, Wis.
Wood Co., John, Bennett Pump Div., Muskegon,
Mich. "Bennett."

TAPE, Masking, See Masking, Tape

TAPPETS, Valve

Accurate Products, Inc., 720 E. Washington
St., Indianapolis 2, Ind.
Brown Corp., 213 Bellevue Ave., Syracuse,
N. Y.
Chicago Screw Co., 2701 Washington Blvd.,
Bellwood, Ill. (Hydraulic and mechanical.)
Diesel Equipment Div., General Motors Corp.,
2100 Burlingame Ave. S.W., Grand Rapids
2, Mich. (Hydraulic.)
Eaton Mfg. Co., Saginaw Div., 9771 French
Rd., Detroit, Mich. "Zero-Lash." (Also
hydraulic and self-adjusting.)
Highland Machine Co., 3215 Superior Ave.,
Cleveland 14, Ohio.
Johnson Products, Inc., 1200 McIlwraith St.,
Muskegon, Mich. (Adjustable.)
Wohlert Corp., 700 E. Grand River Drive,
Lansing 6, Mich.

TARPAULINS, See Covers, Truck

TELEPHONES, Mobile, See Radios, Two-Way

"We tested KYSOR shutters in 1946— now over 600 UPS units are Kysor Equipped"

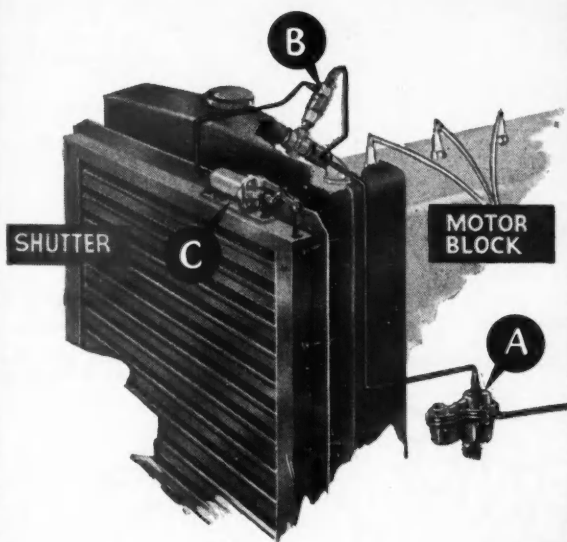
W.D. Bixby

VICE PRESIDENT
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Since the first few experimental KYSOR Shutters were installed on UNITED PARCEL SERVICE units five years ago, millions of grueling stop-and-go miles have proved the wisdom of KYSOR temperature control.

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Air controlled KYSOR shutter installation similar to those used on the heavier UPS units. Perfect engine operating temperature . . . faithfully maintained.

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Both personnel and equipment reflect UNITED PARCEL SERVICE policy of neatness wherever you see them . . . coast to coast! KYSOR is proud to serve in the huge UPS fleet!

TERMINALS, Wire

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
 Aircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa. "AMP." (Solderless.)
 American Electric Cable Co., 181 Appleton St., Holyoke, Mass. "Lusterlac."
 Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
 Barey-Nicholson Co., 8100 Jay Rd., Detroit 4, Mich.
 Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
 Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y. "Hyluga."
 Clark Cable Corp., 11201 Berea Rd., Cumberland 2, Ohio.

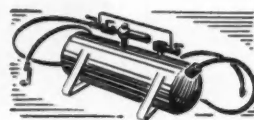
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
 Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Fort Huron, Mich. "Sterling."
 Electric Auto-Lite Co., Wire & Cable Div., Hazleton, Pa.
 Fischer Special Mfg. Co., Morgan & Dover Sts., Cincinnati 6, Ohio. "Turned."
 Grand Haven Brass Foundry, 230 N. Hopkins St., Grand Haven, Mich.
 Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
 Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill. "Imco."
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.

Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Metal Craft Co., 3300 Doris Ave., Detroit 4, Mich.
 Monarch Insulated Wire Co., 491 Broadway, New York, N. Y.
 National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
 Ohio Parts Co., Theresa St. & Chouteau Ave., St. Louis 3, Mo.
 Packard Electric Div., General Motors Corp., Warren, Ohio.
 Patton-MacGuer Co., Baker St. & Virginia Ave., Providence 5, R. I.
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Rajah Co., 53 Locust Ave., Bloomfield 53, N. J.
 Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
 Shakeproof, Inc., 2501 N. Keeler Ave., Chicago 39, Ill.
 Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
 Stimpson Co., Edwin B., 70 Franklin Ave., Brooklyn, N. Y.
 Thomas & Betts Co., 36 Butler St., Elizabeth 1, N. J. "Sta-Kona."
 Thompson-Bremer & Co., 1640 W. Hubbard St., Chicago 22, Ill.
 Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Triaco."
 Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. "Lynn."
 Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.
 Walker Bros., River & End Sts., Conshohocken, Pa. "Walker of Conshohocken." "Clipper."
 Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
 White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa. "Triplex."
 Zierick Mfg. Corp., 385 Gerard Ave., New York, N. Y.

TESTERS, BATTERY. See Instruments. Storage Battery Testing

TESTERS, Bearing Wear

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A. D. I."
 Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
 Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."



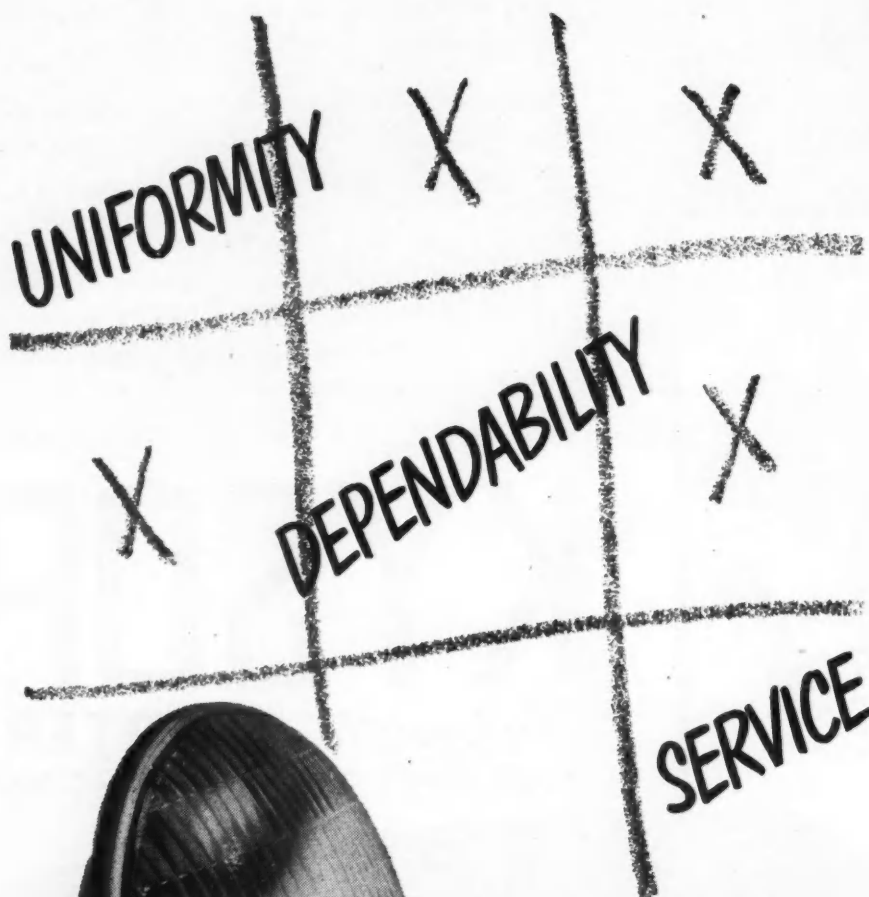
Federal-Mogul Service, 11081 Shoemaker Rd., Detroit 13, Mich.
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

TESTERS, Brake

(See Gages, Brake Drum; Gages, Brake Shoe)
 Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
 Bendix Products Div. of Bendix Aviation Corp., 401 Bendix Drive, South Bend, Ind. "Cowdrey."
 Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
 Permafuse Corp., 12 Commercial Ave., Garden City, N. Y.
 Tapley Products, 53 Park Pl., N. Y. 7, N. Y. (Decelerometer.)
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Safety Lane."

TESTERS, Cylinder Block

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
 Moguloid Co. of America, 3520 W. Carroll St., Chicago 24, Ill.
 Magna Flux Corp., 5900 NW Highway, Chicago 31, Ill. "Magnaflux," "Zyglo," "Stresscoat."



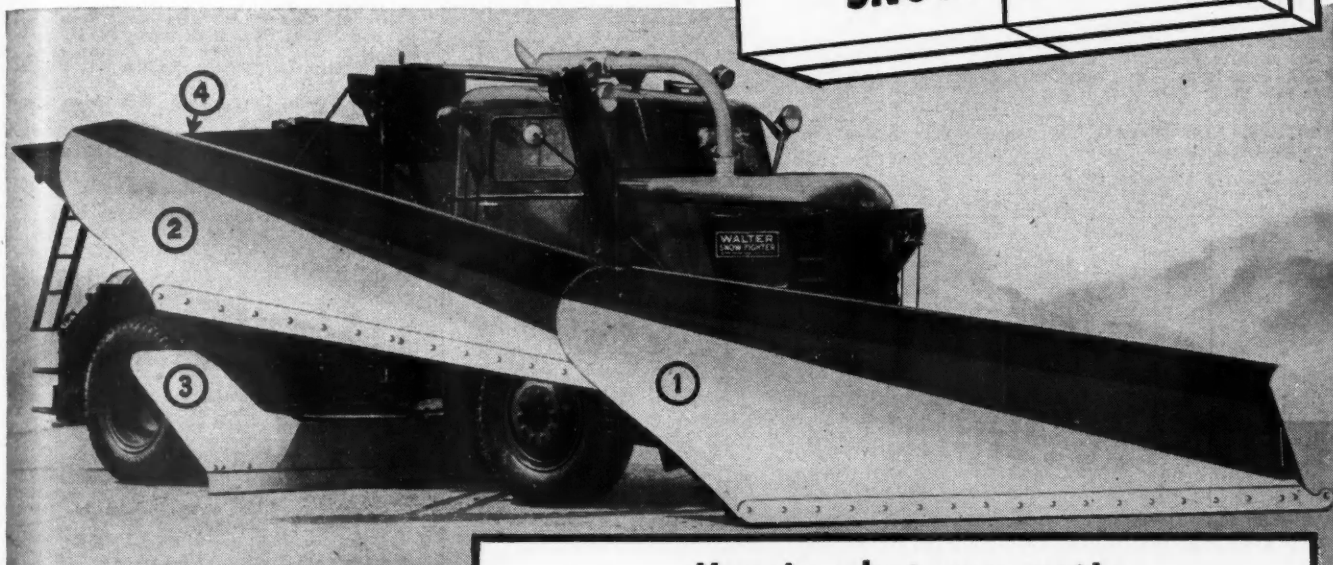
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Wrap up ALL your Winter Worries
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WALTER "4-IN-1" COMBINATION SNOW FIGHTER



Here's what you get!

- Clears snow fast
- Widens and levels snow banks
- Scrapes ice and packed snow
- Spreads sand and chemicals

1. High Speed Plows. Correctly designed to remove a greater volume of snow at high speeds, throwing the snow far off the road. Optional plow equipment available.

2. Right Speed Wing. Hydraulically controlled side wing disperses windrows at high speed, provides greater width of clearance—up to 16 ft. total.

3. Center Scraper Blade. Completely spring-cushioned, hydraulically con-

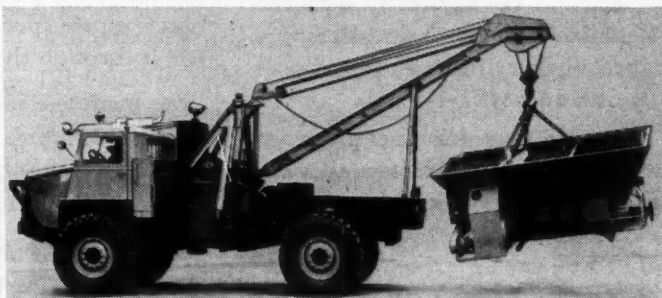
trolled 12 foot blade scrapes hard-packed snow and ice clean down to road, without damage to blade, truck or surface.

4. Automatic Sand Spreader. 10 ton capacity, spreads sand, cinders or chemicals at high speed, to any desired width. Completely automatic, controlled by one man in cab. Great traction of Walter drive system eliminates need to throw sand ahead of wheels, avoiding danger of fouling working parts or brakes.

Equipment is mounted on a 240 h.p. Walter chassis, having 100% traction of the famous Walter Four-Point Positive Drive to prevent

wheel spinning and slipping in snow and on slippery surfaces. Write for full details.

WALTER Snow Fighter-Crane Combination at Logan Airport, Boston, Mass.



WALTER

4-POINT POSITIVE DRIVE
SNOW FIGHTERS

Performs all-year service . . . general wrecking and crane operations, as well as snow removal in winter. 240 h.p. Walter chassis, with 10-ton power boom crane having 18 ft. telescopic boom, extendable to 25 ft. Unit has separate boring winch, 40,000 lbs. capacity, with 500 ft. of $\frac{3}{4}$ " cable to pull, raise, or carry objects. In winter, a front snow plow and sidewing are installed for fast clearing of large areas. Full details on request.

WALTER MOTOR TRUCK CO.

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TESTERS, Diesel Equipment

Automotive Products, Inc., 1700 Grand Ave., Portland 19, Ore.
 Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
 Buda Co., Harvey, Ill.

TESTERS, Driver

Allgaier, Earl, Arlington, Va.
 Keystone View Co., Hamilton & Crandall Sts., Meadville, Pa.
 Porto-Clinic Instruments, Inc., 2000 Varick St., New York 14, N. Y.

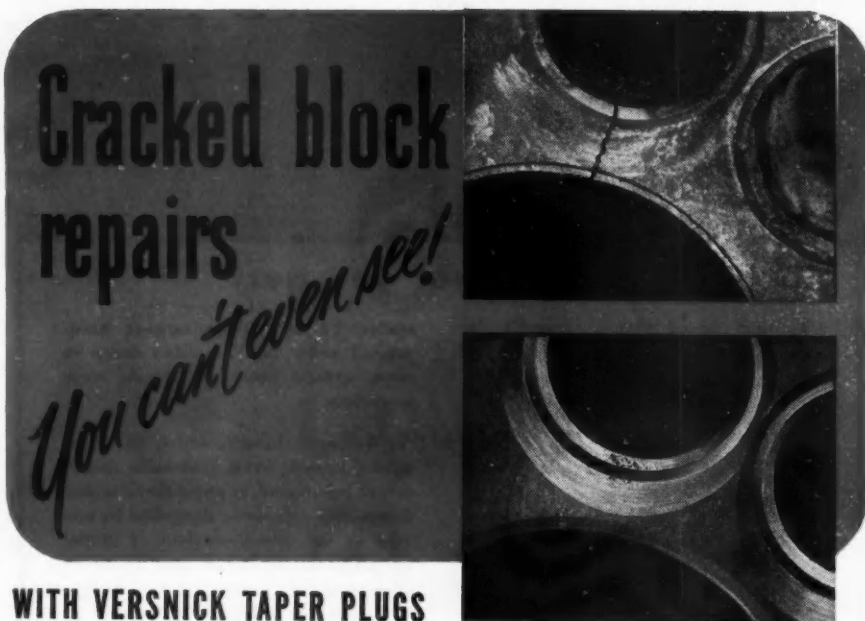
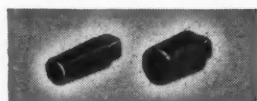
TESTERS, ELECTRICAL, See Instruments, Electrical Circuit Testing

TESTERS, ENGINE, See Analyzers, Trouble

TESTERS, Fuel Pump

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
 Airtex Automotive Div., Clifford Master Mfg. Co., Fairfield, Ill.
 Araco Mfg. & Sales Corp., 453 Tenth Ave., New York 18, N. Y.
 Fischer & Porter Co., 700 County Line Rd., Hatboro, Pa. "Mileorator."
 Gale Hall Engrg., Inc., 107 Northampton St., Boston 18, Mass. "Precision."
 Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Lesterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
 Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
 Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
 Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
 Weidenhoff Inc., Jos Algonia, owa (Sole distributors, Bowser, Inc, Fort Wayne, Ind)

**WITH VERSNICK TAPER PLUGS**

Even the most difficult cracked block jobs can be repaired permanently and economically with the Versnick Process—using Versnick taper plugs, cylinder and valve port sleeves, and MET-L-SEAL.

Because Versnick taper plugs are made of motor-block iron, they expand and contract at the same rate as the block—actually become part of it. You can't even see the repair!

For fast, efficient repairs, send your cracked and damaged motor blocks to your nearby Versnick Block Repair headquarters.

For quick, permanent sealing of minor cracks, use Versnick MET-L-SEAL, the new ionized iron compound, developed, tested and proven by America's top motor block repair specialists. Just circulate it through the cooling system.

For complete information, write Versnick Manufacturing Company, 4700 East Nevada, Detroit 34, Mich.

**TESTERS, Gasoline Mileage**

Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
 Curtiss & Smith Mfg. Corp., 125 E. 4th St., Pottstown, Pa. "C. S."
 Fischer & Porter Co., 700 County Line Rd., Hatboro, Pa. "Mileorator"
 Gale Hall Engrg., Inc., 107 Northampton St., Boston 18, Mass. "Precision."
 Gauthier, Donat A., 2970 W. Grand Blvd., Detroit, Mich. "Consometer," "Gauthier," "Vacomat."
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 Snow Plastics Corp., 5840 S. Oakley Ave., Chicago 36, Ill.
 Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. "Precise," "Zenith."

TESTERS, Headlight (Optical)

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.
 Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
 Manbee Equipment, Div. Bear Mfg. Co., 1615 N. Wabash Ave., Chicago 1, Ill.
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Rayoscope." (Electric eye; licensees.)

TESTERS, Inner Tube, See Tanks, Inner Tube Testing

TESTERS, Inspection for Cracks in Parts

Magnaflux Corp., 5900 NW Highway, Chicago 31, Ill. "Magnaflux," "Zyglo," "Stresscoat."
 Northrup Aircraft Co., 1001 E. Broadway, Hawthorne, Calif.

TESTERS, Radiator

Fischer & Porter Co., 700 County Line Rd., Hatboro, Pa. "Flowrator."
 Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.

TESTERS, Spark Plug

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
 Acme Electric Corp., Cuba, N. Y.
 Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
 Champion Spark Plug Co., 904 Upton Ave., Toledo, Ohio.
 Cropley Instruments, 10 S. River St., Aurora, Ill.
 Fleetcraft, Inc., 111 W. Monroe Ave., Chicago 1, Ill.
 Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
 Kastar, Inc., 200 Lincoln Ave., New York 64, N. Y. "Kant-Shok."
 King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
 Park Metalware Co., Thorn Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "X Celite."
 Stanley Tools, 111 Elm St., New Britain, Conn.
 Wudel Mfg. Co., Edmund J., 6082 Ferguson Dr., Los Angeles 22, Calif. "Vixen."

TESTERS, Valve and Clutch Spring

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio. (Valve).
 Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto." (For valve and clutch springs.)
 Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
 Sturtevant Co., P. A., Addison, Ill.



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TRAINOR BUILD-UP KITS provide any 1½, 2, and 3 ton truck with extra carrying capacity, protect the main spring, chassis and tires from the wear and tear of added weight. Extra leaves reinforce each main and helper spring, easily absorbing the added weight from heavier loads and serving to stabilize same. All Trainor Kits come complete

with extra long U-bolts, rebound clips and bolts, are engineered for the job and come to you individually boxed.

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TESTERS, Valve-Clutch Spring—cont'd.
Sun Electric Corp., 6923 Avondale Ave., Chicago 31, Ill.

THERMOMETERS, Recording and Indicating

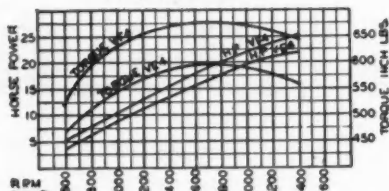
Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.
Bristol Co., Waterbury 20, Conn.
Dillon Co., W. C., 1421 S. Circle Ave., Forest Park, Ill.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.

Engelhard, Inc., Charles, 900 Passaic Ave., East Newark, N. J.
Foxboro Co., Neponset Ave., Foxboro, Mass.
Frens Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. (Battery.)
Illinois Testing Laboratories, 420 N. LaSalle St., Chicago, Ill.
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill. (Indicating.)
Lewis Engineering Co., 339 Church St., Naugatuck, Conn.
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., 2738 Greenview Ave., Chicago, Ill.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. "Princo." (Indicating.)

Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Standard Dry Kiln Co., P. O. Box 5708, Indianapolis 21, Ind.
Tagliabue Instruments Div., Weston Electric Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Thwing-Albert Instrument Co., Penn St. & Pulaski Ave., Philadelphia 44, Pa.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J. "Max-Min."
Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

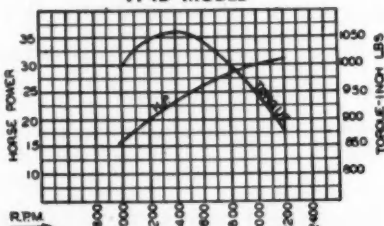
POWER ADVANTAGE in the Top Bracket Power Range... V-Type 4-cylinder WISCONSIN *Air-Cooled* ENGINES, 15 to 30 hp.

VE4, VF4 MODELS



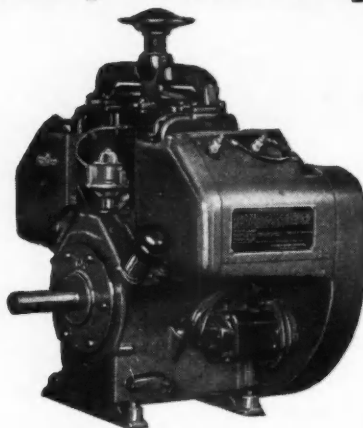
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VP4D MODEL



Our engineering department will gladly co-operate with you in adapting Wisconsin Engines to your Requirements. Write for detailed data and name of the nearest Wisconsin distributor.

	MODELS		
Bore.....	3	3 1/4	3 1/2
Stroke.....	3 1/4	3 1/4	4
No. of cylinders.....	4	4	4
Displ. cubic inches.....	91.9	107.7	154
H.P. and R.P.M. range.....	15 at 1600 21.5 at 2400	17.5 at 1600 25 at 2400	26.8 at 1600 31 at 2200
Net weight in lbs., Standard Engine.....	295	295	410
Standard engine, side-mount tank.....	315	315	430
Standard power unit.....	355	355	470
Added weight for clutch.....	40	40	90
Added weight for reduction.....	70	70
Added weight for clutch reduction.....	90	90	135



VE4, VF4, and VP4D, V-type, 4-cylinder standard engines, 15 to 30 hp.

These 4-cylinder, V-type Wisconsin Engines meet every heavy-duty power requirement. V-type design assures not only the smoothest power delivery but also represents substantial reductions in engine weight as well as extreme compactness... at no sacrifice of rugged construction.

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Barber-Colman Co., 1300 Rock St., Rockford, Ill.
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio.
Bridgeport Thermostat Div., Robertshaw-Fulton Co., 1225 Connecticut Ave., Bridgeport 1, Conn.
Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "HaDees."
Chicago Metal Hose Corp., 1315 S. 3rd Ave., Maywood, Ill. "Flexon"
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
Eveco Products Co., 160 W. 62 St., N. Y. 23, N. Y.
Fulton Syphon Div., Robertshaw-Fulton Controls Co., W. Cumberland St., Knoxville 4, Tenn. "Syphon," "Syphon Autostat."
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Hawk Tool & Engrg. Co., 20 W. Washington St., Clarkston, Mich. "Divert-A-Flow." (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.)
Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis, Minn. "Honeywell's Moduflow" (control systems, for buses.)
Standard-Thomson Corp., 216 S. Main St., Dayton 2, Ohio.
United Electro Control Co., 85 School St., Watertown 72, Mass.

THIRD AXLE UNITS, See Axle Units, Third, for Trucks

THREAD, Inserts

Heli-Coll Corp., Shelter Rock Lane, Danbury, Conn.

THREAD RESTORING TOOLS, See Tools Thread Restoring

TIMING CHAINS, See Chains, Timing

TIRE, Branding Irons

Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.

TIRE BUFFERS, See Buffers, Tire (Electric)

TIRE CARRIERS, See Carriers, Tire

TIRE CHAINS and EQUIPMENT, See Chains, Tire

TIRES, Pneumatic



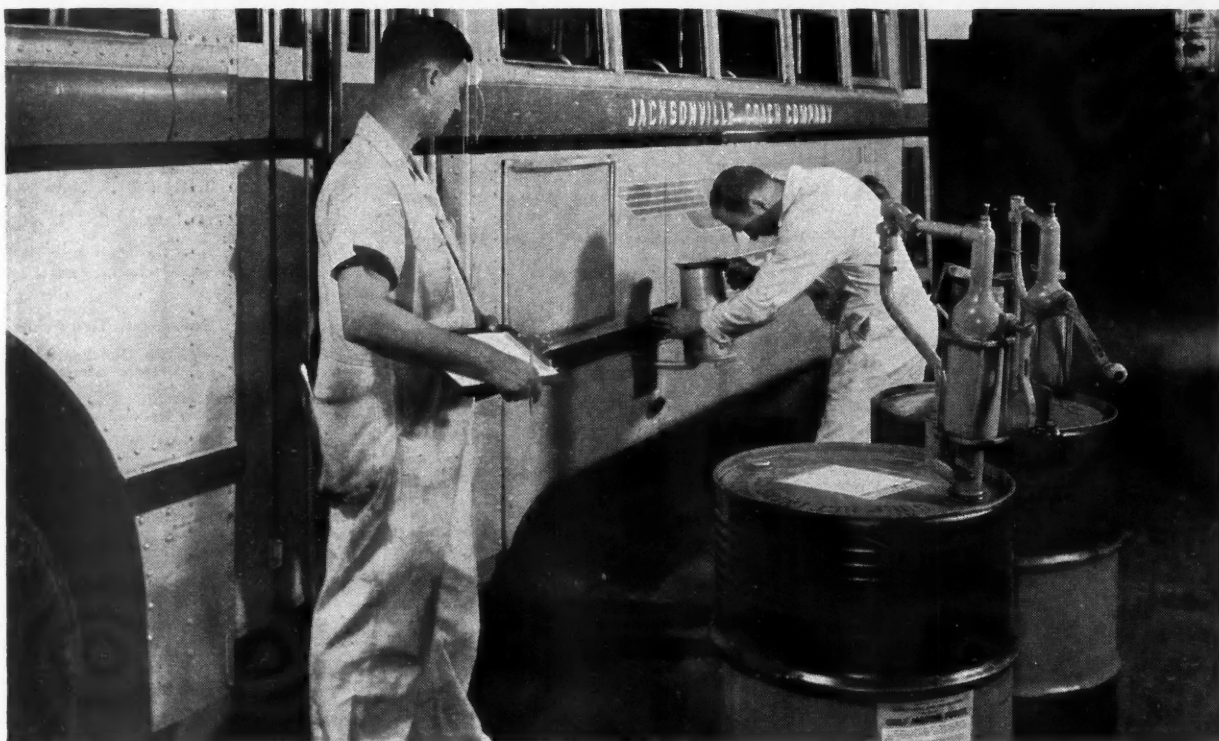
Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.
Denman Rubber Mfg. Co., Warren, Ohio.
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.

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World's Largest Builders of Heavy-Duty Air-Cooled Engines
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Reduce maintenance costs, oil consumption

with **GULF MOTOR FLUSH**

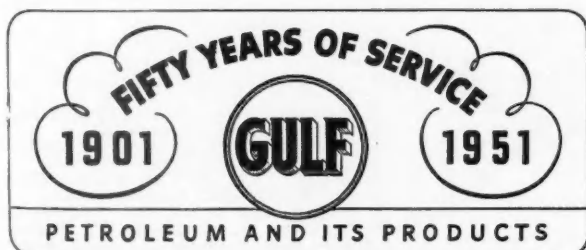
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General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
 Gillette Tire Division, United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
 Kelly-Springfield Tire Co., Cumberland, Md.
 Lake Shore Tire & Rubber Co., Des Moines, Iowa.
 Lee Rubber & Tire Corp., Conshohocken, Pa.
 McCreary Tire & Rubber Co., Box 700, Indiana, Pa.

Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio.

Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.

Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.

Pennsylvania Rubber Co., P. O. Box 377, Mansfield, Ohio.

Schenuit Rubber Co., Frank G., Railroad & Union Aves., Baltimore 11, Maryland.

Seiberling Rubber Co., Akron, Ohio.

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRES, Solid

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.

Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.

Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRE GAGES, See Gages, Tire Pressure

TIRE INFLATOR, See Chucks, Air (Tire Inflating); also Meters, Air Tower

TIRE RECAPPING MOLDS, See Molds, Tire Recapping and Retreading

TIRE REGROOVERS, See Regroovers, Tire

TIRE REMOVING TOOLS, See Tools, Tire Removing and Replacing

TIRE REPAIR MATERIALS, See Compounds, Tire Repair

TIRE REPAIR TOOLS, See Tools, Tire

TIRE SPREADERS, See Tools, Tire Spreading

TIRE VULCANIZERS, See Vulcanizers, Portable and Vulcanizer, Shop

TOOLS, Battery Service

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.

Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. (Terminal post.)

Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill. (Terminal crimpers.)

Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. "Blue Bird." (Pliers, etc.)

Bishman Mfg. Co., Onseo, Minn.

Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.

Champion DeArment Tool Co., 1306 S. Main St., Meadville, Pa. "Channellock." (Pliers and clippers.)

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.

General Scientific Equip. Co., 27th & Huntingdon Sts., Phila. 32, Pa.

Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand." "Van Chrome."

Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.

Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.

Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

Lectrolite Corp., Hickory St., Defiance, Ohio. (Pliers and wrenches.)

Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin'."

McColpin-Christie Corp., 3410 W. 67th St., Los Angeles 43, Calif. "C. & C."

Murray Corp., Towson 4, Md.

New Britain Machine Co., South St., New Britain, Conn.

P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.

Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto." (Terminal pullers.)

Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. (Terminal pullers.)

Utica Drop Forge & Tool Corp., 2500 Whitesboro St., Utica 4, N. Y. (Pliers.)

Weidenhoff, Inc., Joseph, Algona, Iowa (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

Whittaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo. (Pliers.)

TOOLS, Body and Fender Repair (Hand)

A-B-C Mfg. Co., 2757 N. Ruth St., Phila. 34, Pa.

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."

American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich. "Ausco."

Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.

Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. (Hammers.)

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."

They're made by Arrow . . . they're the finest



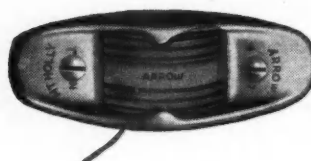
No. 39 Streamlined marker and clearance light. Can be used on corners in place of two lights, on fenders as parking lights. Available in three standard bases to fit practically any body curvature. Three finishes—black, chrome or satin aluminum—and six lens-colors.



No. A-270 Flush-mounted marker light. Polished stainless steel, with red or amber plastic lens 2 1/4" in diameter. Flat back allows bulb socket to be recessed.



No. V35 Vapor-proof flush-mounted marker light. Black or chrome-finished rim with red, amber or green glass lens 3" in diameter. Threaded socket connection; 1/4" coupling.



No. 47 Armored clearance light. The housing projects completely around lens for maximum protection. Finished in baked satin enamel, with red, green or amber glass lens. Flush, flat base; felt mounting gasket and rubber socket insulator supplied.

Arrow makes a complete line of dependable "Safety after Dark" equipment—headlights, marker lights, fog lights, tail lights, directional signals, switches,

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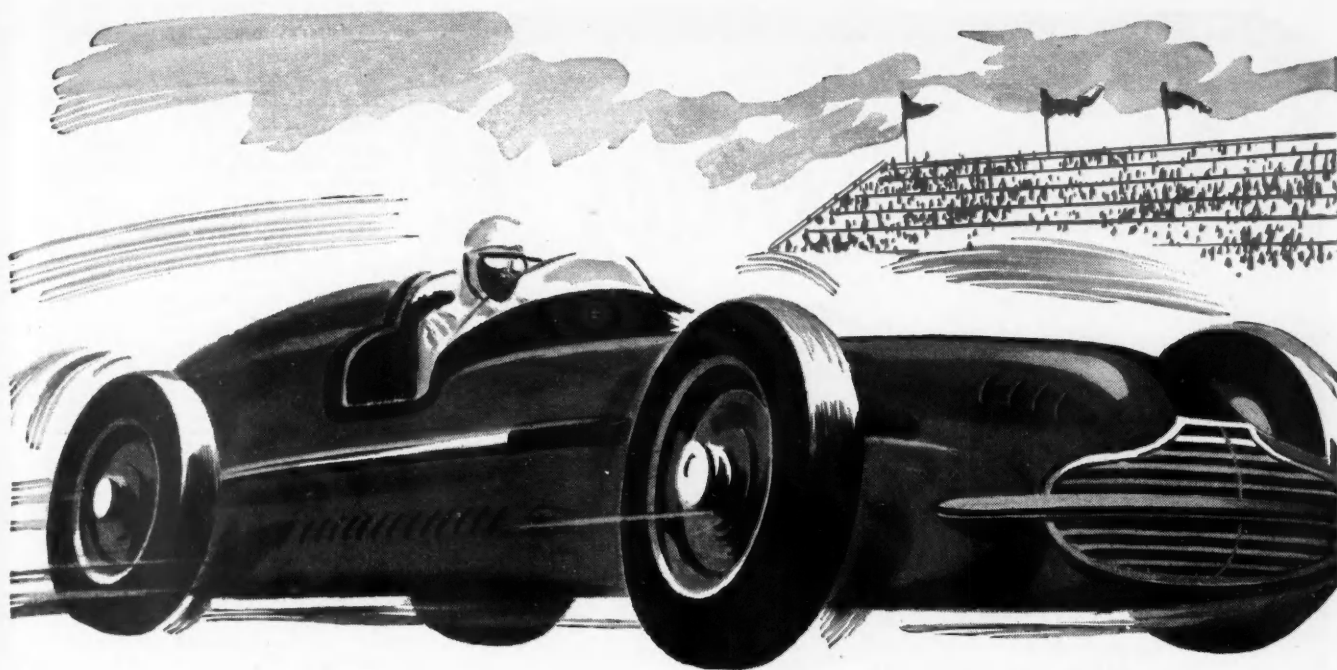
See your jobber salesman today. Ask him to show you the complete new Arrow catalog.



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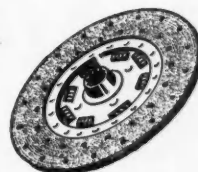
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MONMOUTH Thinwall Bearings are the choice of winners at the 500-mile Indianapolis Speedway Races.

In 1950, 8 of the first 10 cars to finish the race used Clevite 77 and Micro type Monmouth Engine Bearings.

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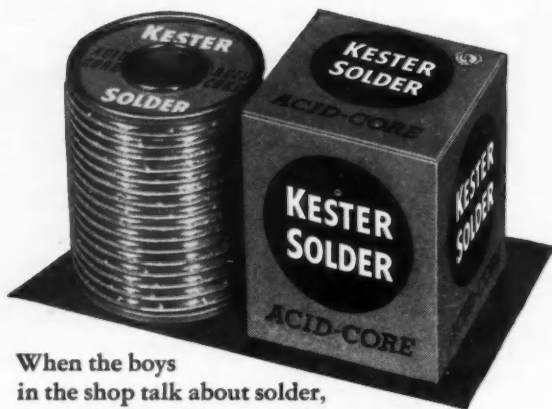
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All Monmouth Replacement Parts are engineered and precision made to safeguard the reputation of the master automotive mechanics and insure user safety and satisfaction.

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REPLACEMENT SALES DIVISION
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When the boys
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the old reliable product now in a new package.

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Mechanics know that using Kester makes any
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grades of tin and lead commercially available.
The fluxes are chemically and scientifically correct.

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Kester is faster to use. Mechanics prefer it and are
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Fairmount Tool & Forging Co., 10611 Quincey Ave., Cleveland 6, Ohio.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. Y. "Vixen." (Files, etc.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Keystone File Sharpening Co., 7720 Maie Ave., Los Angeles 1, Calif.
New Britain Machine Co., South St., New Britain, Conn.
Nicholson File Co., 23 Acorn St., Providence 1, R. I. "Nicholson Superior." (Files.)
Nolvex File Co., 10329 Detroit Ave., Cleveland 12, Ohio (Files).
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto."
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson." (Hand.)
Rivette Mfg. Co., 1515 Rothwell Ave., Houston, Tex. "Fndrol." (Hand.)
Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio. (Rubber hammers.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa.
Stream Line Tools, Inc., Conover, N. C.
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

TOOLS, Body and Fender Repair (Portable Electric)

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Red Devil Tools, Coit St., Irvington 11, N. J.

TOOLS, Body and Fender Repair (Portable Hydraulic)

American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. "Flex-O-Power."
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power."
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis. "Hein-Werner Power Plus."
Old & Barnes, Inc., 250 N. Vinado Ave., Pasadena 8, Calif. "Stretch Clamp."
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

TOOLS, Body and Fender Repair (Portable Pneumatic)

American Gage Co., 143 17th Ave., Paterson, N. J.
Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
Borm Mfg. Co., 23 N. Union St., Elgin, Ill. "Elgin." (Hammers.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "C P." (Fender irons.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Hauschild Mfg. Co., F. J., 540 Main St., Oneonta, N. Y. "Rams-Head."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor." (Hammers.)
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis. (Hammers.)
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.

TOOLS, Brake Cylinder Cleaning and Polishing

Hyland Mfg. Co., 818 John St., Portsmouth, Ohio.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

TOOLS, Brake Spring Removing & Replacing

Barrett Equipment Co., 21st & Cass, St. Louis 6, Mo.
Cornwell Quality Tools Co., Mogadore, Ohio.



Protect your fleet against **CORROSION** with **"UNDERSEAL"**, the rubberized coating REG. U.S. PAT. OFF. BRAND

CORROSION, RUST and *underbody-rot* are taking a big toll of American truck and automotive fleets. Units are laid up for costly maintenance and repair that could be easily prevented with a coating of "UNDERSEAL"!

This thicker, tougher, longer-lasting undercoating is *rubberized*. That means that it goes on easily in a full $\frac{1}{8}$ -inch coating; it lasts much longer than the inferior thin materials that flake and chip away when exposed to extreme temperatures or hard

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Ask your 3M representative to show you how to cut operating costs with "UNDERSEAL". He's equipped to help you with any undercoating problem. If you prefer, write directly to Minnesota Mining & Mfg. Co., St. Paul 6, Minn. for helpful booklet on fleet maintenance.



USE "UNDERSEAL" **INSIDE** the trailer body to seal out rust and prevent corrosion! The thick, tough protective "hide" keeps rivets anchored firmly in place, prevents holes and leaks. You'll have fewer losses from damaged goods—longer road-life—when you protect with "UNDERSEAL"!



Made in U.S.A. by MINNESOTA MINING & MFG. CO., St. Paul 6, Minn., also makers of "Scotch" Brand Pressure-sensitive Tapes, "Scotch" Sound Recording Tape, "Scotchlite" Reflective Sheeting, "Safety-Walk" Non-slip Surfacing, "3M" Abrasives, "3M" Adhesives. General Export: Minn. Mining & Mfg. Co., International Division, 270 Park Avenue, New York 17, N. Y. In Canada: Minnesota Mining & Mfg. of Canada, Ltd., London, Canada.

TOOLS, Brake Spring Removing & Replacing—continued

New Britain Machine Co., South St., New Britain, Conn.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
 Utica Drop Forge & Tool Corp., 2500 Whitesboro St., Utica, N. Y. (Pliers.)
 Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Superrench."

TOOLS, Clutch Alignment

(See also Machines, Clutch Rebuilding)
 Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.

Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Miller Co., L. B., 394 State St., Stamford, Conn.
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 Rostar Tool Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
 Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Contact Point Reconditioning

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
 Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
 Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Guaranteed Parts Co., Seneca Falls, N. Y.
 Heller Bros. Co., 865 Mt. Prospect Ave., New York, N. Y.
 K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
 Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
 Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
 Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
 Miller Co., L. B., 394 State St., Stamford, Conn.
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 New Britain Machine Co., South St., New Britain, Conn.
 Nolvex File Co., 10329 Detroit Ave., Cleveland 12, Ohio.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 3, Brooklyn 32, N. Y.
 Rinck-McIlvaine, Inc., 16 Hudson St., New York 13, N. Y. (Rimac.)
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
 Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 23, Pa. "Contacto," "Ideal," "Tungsto," "Taconite," "Vim."
 Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

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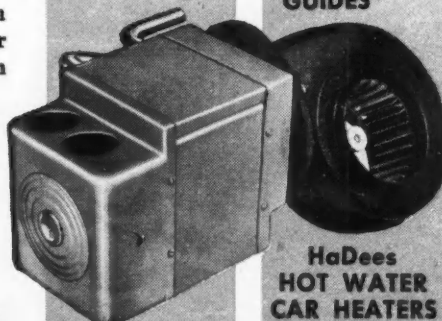
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TOOLS, Cylinder Boring (Portable)

(See also Hones, Cylinder. Also Deglazers, Cylinder)
 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
 Detroit Boring Bar Co., 690 E. Fort St., Detroit 26, Mich.
 Evans Reamer & Machine Co., New Lexington, Ohio.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Rottler Boring Car Co., 1727 First Ave., Seattle 4, Wash.
 St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo. "St. Louis Superior," "S-L."
 Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
 Van Norman Co., 2640 Main St., Springfield 7, Mass. "Per-fect-O."
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

TOOLS, Flexible Shaft

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
 Balmar Corp., N. A., Strand Div., 3500 Clipper Mill Rd., Woodberry, Baltimore 11, Md. "Strandflex."
 Binghamton Flexible Shaft Div., Swartz & White Mfg. Co., 486 Chenango St., Binghamton, N. Y.
 Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Flexmaster."
 Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
 Dumore Co., 1300 17th St., Racine, Wis.
 Haskins Co., R. G., 2651 W. Harrison St., Chicago 27, Ill. (Sanding, grinding, polishing, screwdriving and nut setting.)
 Jarvis Co., Chas. L. Middletown, Conn.
 Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
 Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. "Martindale Motorflex."
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn. "Kellerflex."
 Precise Products Co., 1323 Clark St., Racine, Wis. "Coolflex."
 Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
 Stow Mfg. Co., 38 Shear St., Binghamton, N. Y.
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
 Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
 Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wycos."



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 Armstrong Bros. Tools Co., 5200 Armstrong Blvd., Chicago 30, Ill.
 Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
 Atmars Tool Co., 2411 Chestnut St., Oakland 7, Cal.
 BMC Mfg. Co., 5 Griswold St., Binghamton, N. Y.
 Bath & Co., John, 18 Grafton St., Worcester, Mass.

Bay State Tap & Die Co., Chauncy St., Mansfield, Mass.
 Beall Tool Div., Herbrand & Co., East Alton, Ill. (Ratchet.)
 Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. "Bluebird."
 Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
 Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn. "Vitalloy."
 Blackhawk Mfg. Co., 5325 W. Rogus St., Milwaukee 1, Wis. "Blackhawk," "Nugget."
 Boker & Co., 101 Duane St., New York, N. Y.
 Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Bremil Mfg. Co., 1700 Pittsburgh Ave., Erie, Pa. "All-Alloy."

Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn. "Blue-Forge," "Hy-Bar."
 Brubaker & Bros. Co., W. L., Millersburg, Pa.
 Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. (Rubber mallets.)



Callahan Mfg. Co., 90 Halton St., Danver, Mass.
 Cal-Van Machine Products, Inc., 1809 S. Water St., Jackson, Miss.
 Card Mfg. Co., S. W. Div., Union Drill Co., Rumford Ave., Mansfield, Mass.
 Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. "C-T-K."
 Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio. "Hargrave."
 Cleveland Steel Tool Co., 660 W. 82nd St., Cleveland, Ohio.
 Cornwell Quality Tool Co., Mogadore, Ohio.
 Conant & Donelson Co., Conway, Mass.
 Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
 Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "CS." (Wheel bearing adjusting nut.)
 Danielson Mfg. Co., Danielson, Conn. "Danco."
 Delaware Tool Steel Corp., 3300 Market St., Wilmington 99, Del. "Delsteel."
 Division Lead Co., 836 W. Kinzie St., Chicago, Ill. "Divco." (Lead and babbitt.)
 Dixon, Inc., William, 32 E. Kinney St., Newark, N. J.
 Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill. (Duro Chrome.)
 Fairmount Tool & Forging Co., 10611 Quincy St., Cleveland 6, Ohio.
 Forsberg Mfg. Co., 125 Seaview Ave., Bridgeport, Conn. "Whale."
 G. M. Co. Mfg. Co., 48-10 21st St., Long Island City, L. I., N. Y.
 Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Lead, babbitt, copper, rubber, etc.)
 Geometric Tool Co., Div. of Greenfield Tap & Die Corp., Blake & Valley Sts., New Haven 15, Conn. (Solid adjustable.)
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Rubber mallet.)
 Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
 Greene, Tweed & Co., North Wales, Pa. "Bosa," "Empire." (Plastic.)
 Greenfield Tap & die Corp., Sanderson St., Greenfield, Mass. "GTD."
 Hanson-Whitney Machine Co., 169 Bartholomew Ave., Hartford 2, Conn. "HW."
 Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. J.
 Hendry Co., C. J., 27 Main St., San Francisco 5, Calif. "Tac."
 Henry & Allen, Inc., 2 Wadsworth St., Auburn, N. Y. "Red Nut," "Silver Nut."
 Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
 Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
 Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis, Minn. (Impact for buses, trucks, and trailer wheels.)
 Jergans Tool Specialty Co., 712 E. 163rd St., Cleveland 10, Ohio. (For White trucks only.)
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 Kaalot Mfg. Co., 3927 N. Kedzie Ave., Chicago 18, Ill. (Buckskin fabric.)
 Kennedy Service Tools Inc., P. O. Box 38, Mogadore, Ohio. (Rubber, fibre, plastic.)
 Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Keystone Reamer & Tool Co., Millersburg, Pa.
 Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. "Budnut." (Wheel.)
 Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa. (Solid Adjustable.)
 Larson Tool & Stamping Co., Olive St., Attleboro, Mass.
 Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
 Looch & Co., R. J., 345 N. Gay St., Baltimore, Md. "Lightnin." (Rubber mallets.)
 Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Center.)
 Martindale Electric Co., 1840 Hird Ave., Cleveland 7, Ohio. (Rawhide.)

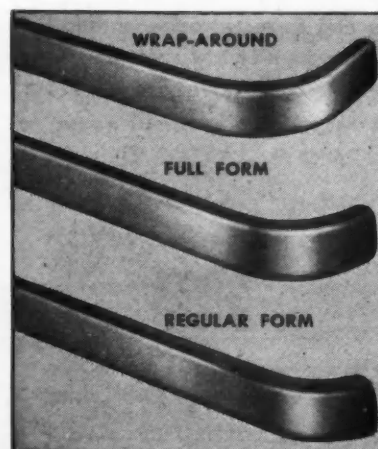
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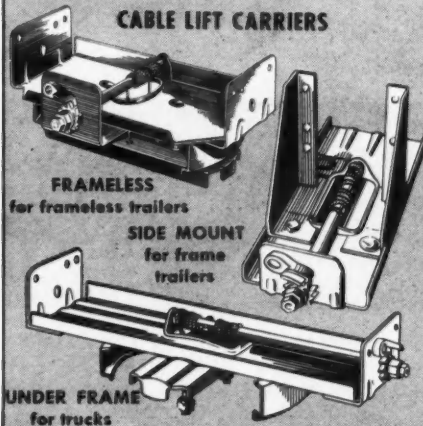


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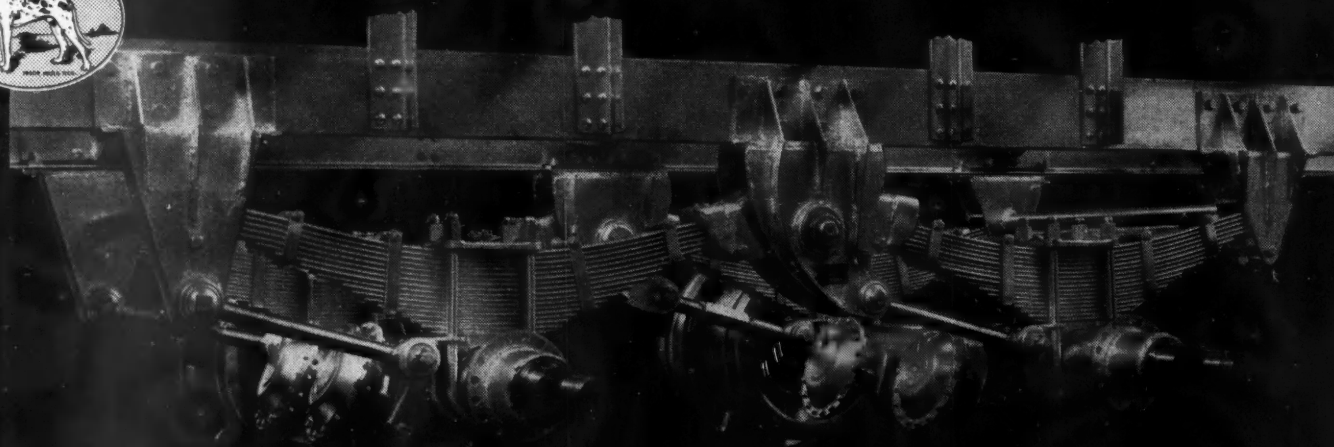
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 Metal Engineering Co., 134 N. La Salle St., Chicago 2, Ill. "Metco."
 Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
 Millers Falls Co., Greenfield, Mass. (Brass.)
 Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
 Murchey Machine & Tool Co., 12800 Puritan St., Detroit, Mich. (Solid and Adjustable.)

National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., South St., New Britain, Conn.
 New England Pressed Steel Co., Washington Ave., Natick, Mass. "Nepaco."
 New Plastic Corp., 1017 N. Sycamore Ave., Los Angeles, Calif. "Nupla."
 Niagara Machine & Tool Works, 633 Northland Ave., Buffalo 11, N. Y.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
 P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
 Park Metalware Co., Thorne Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "Excel."
 Peck, Stowe & Wilcox Co., 217 Center St., Southington, Conn. "Pexto."

Peterson Mfg. Co., De Witt, Neb. "Vise-Grip." (Toggle type.)
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto."
 Polaris Products, Inc., 1006 S. Barclay St., Milwaukee, Wis. "Speedgrip."
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford, Conn.
 Quality Tool Corp., New Wilmington, Pa. "Oldforge."
 Reiff & Nester Co., Lykens, Pa.
 Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
 Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.
 Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich. (Rubber products.)
 Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
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 Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
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 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point," "Snap-On."
 Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
 Stanley Tools, 111 Elm St., New Britain, Conn.
 Starrett Co., L. S., 1 Crescent St., Athol, Mass.
 Stevens-Walden, Inc., 475 Shrewsbury St., Worcester, Mass. "Walden-Worcester."
 Stortz & Son, John, 210 Vine St., Philadelphia 6, Pa.
 Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo. "Powerench."
 Tri-Grip Co., 2053 Twelfth St., Cuyahoga Falls, Ohio.
 Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Amory St. (Roxbury), Boston, Mass. "Trimont."
 Truth Tool Co., 711 S. Front St., Mankato, Minn.
 Tuck Mfg. Co., 74 Ames St., Brockton, Mass.
 Union Tool Co., 48 E. River St., Orange, Mass.
 Union Twist Drill Co., Monroe St., Athol, Mass.
 Union Twist Drill Co., Butterfield Div., Derby Line, Vt.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York, N. Y.
 Usheo Mfg. Co., 135 Tonawanda St., Buffalo 7, N. Y. "Usheo-Lawson."
 Utica Drape Forge & Tool Corp., 2500 Whitesboro Rd., Utica 4, N. Y.
 Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Plastic.)
 Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt.
 Vlehek Tool Co., 3001 E. 87th St., Cleveland, Ohio.
 Walworth Co., 60 E. 42nd St., New York 17, N. Y. "Genuine Stillson," "Walco."
 Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
 Whitaker Mfg. Co., 409 S. Greene St., Chicago, Ill.
 Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. (Interchangeable.)
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
 Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Supersocket."
 Wiss & Son Co., J., 33 Littleton Ave., Newark, N. J.
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 Cornwell Quality Tools Co., Mogadore, Ohio.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
 Foster Mfg. Co., 287 Delaware Ave., Buffalo 3, N. Y.
 Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
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 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
 New Britain Machine Co., South St., New Britain, Conn.
 P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
 Proto Tools, 2009 Santa Fe Ave., Los Angeles, Calif. "Proto."

Revstar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
 Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Snap-On," "Blue Point."
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
 Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Superrench."

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Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
 Cornwell Quality Tools Co., Mogadore, Ohio.

Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Roscobel, Wis.
 K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (For Ford cars.)
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 New Britain Machine Co., South St., New Britain, Conn.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
 Wudel Mfg. Co., Edmund J., 6082 Ferguson Dr., Los Angeles 6, Calif. "Vixen."
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 American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. "Adco."
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 Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
 Cornwell Quality Tools Co., Mogadore, Ohio.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."
 Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 K-D Mfg. Co., 526 S. Washington St., Lancaster, Pa.
 Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
 Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 Master Signal Co., 2465 W. Grand River Ave., Howell, Mich. "Master," "Standard."
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 New Britain Machine Co., South St., New Britain, Conn.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto."
 Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
 Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
 Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
 Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif. "Sta-Put."
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
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 Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."
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 Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
 Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
 Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
 Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Roscobel, Wis.
 Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
 Master Signal Co., 2465 W. Grand River Ave., Howell, Mich.
 Miller Co., L. B., 394 State St., Stamford, Conn.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., South St., New Britain, Conn.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
 Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.

NO lubrication required



Operators report as many as 200,000 miles of service with no maintenance expense or down time. The trunnion shaft is mounted on two rubber bushings, eliminating the necessity of lubrication.

the **NEWAY** Tandem Suspension gives you:

- LOWEST POSSIBLE UNSPRUNG WEIGHT
- EASY RIDE AND EASY HANDLING
- NO ROAD-HOPPING OR TIP-OVER ACTION
- NO RADIUS RODS TO ADJUST
- PERMANENT ALIGNMENT
- SUPERIOR SPRING DESIGN
- LOAD EQUALIZED BETWEEN AXLES
- THOROUGHLY ROAD TESTED AND PROVEN IN SERVICE

Write today for more complete information and specifications.

NEWAY Equipment Company

Muskegon, Michigan, and

201 S. E. Washington St., Portland, Oregon

ALSO MANUFACTURERS OF PUSHER THIRD AXLES FOR TRUCKS AND TRACTORS

For "open-top" Joe never heard about **SPEED-RACK**

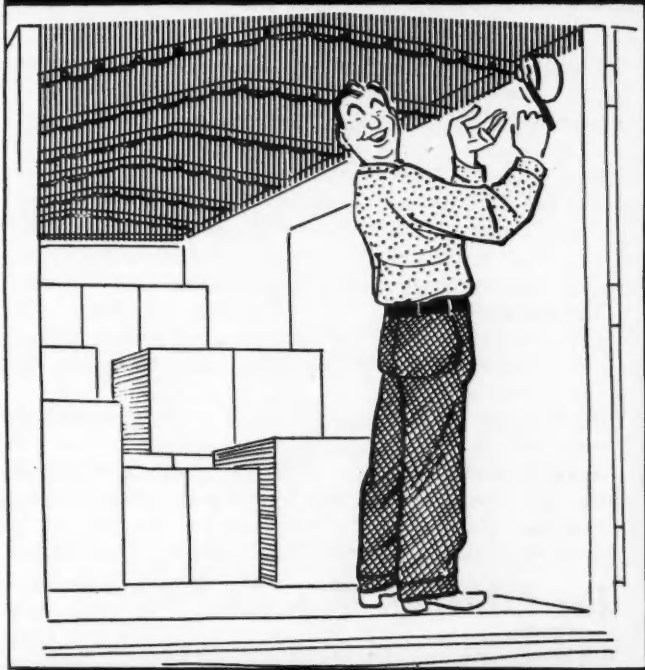


JOE SURE HAS TROUBLE WITH HIS CANVAS. IF HIS TRAILER WAS EQUIPPED WITH SPEED-RACK LIKE MINE, HE'D BE UNLOADED AND BACK ON THE ROAD BY NOW.

IF TARPS COULD TALK, IT'S A CINCINCH THEY'D SCREAM FOR SPEED-RACK! THAT'S THE SECOND ONE JOE HAS RIPPED THIS WEEK TRYING TO PEEL 'EM BACK BY HAND.

SOMEBODY OUGHT TO TIP JOE OFF TO SPEAK TO HIS BOSS ABOUT SPEEDRACK. MY OUTFIT USES NOTHING ELSE ON OPEN TOP STUFF. THEY PAY FOR THEMSELVES IN TARP REPAIRS ALONE.

Then his best friends told him



By the simple turning of a hand crank, the Speedrack steel bows gently fold the canvas back or stretch it tight over the load. Fleet owners everywhere have found that Speedracks mean less time at the loading dock, less weather exposure, less tarp damage . . . you should be using them. For the name of your nearest dealer, write to Department CJ today.

Pittsburgh SPEED-RACK

Pittsburgh Steel Products Company
A Subsidiary of Pittsburgh Steel Company
Grant Building • Pittsburgh 30, Pa.

UNIVERSITY OF MICHIGAN LIBRARIES



Kinnear Rolling Doors

Save money at your service entrances

Installing Kinnear Steel Rolling Service Doors in your service entrances is an investment that quickly pays for itself in at least three ways:

(1) Coiling upward action gives you full use of *all* floor and wall space around doorways. Materials of any kind can be stored within an inch or two of the doors, inside or out, without impeding their operation.

(2) The neat, strong curtain of interlocking steel slats assures long, dependable service and low-cost maintenance.

(3) The all-metal construction of Kinnear Doors gives you extra protection against fire, intruders, wind and storm damage, and other hazards.

By opening straight upward with spring-counterbalanced action, they provide smooth, easy operation under all conditions. They can be equipped for manual, mechanical, or electrical control. Motor operated doors can be equipped with any number of remote control switches, for maximum convenience. Kinnear Doors are built in any size, for easy installation in old or new buildings. Write for complete information.

The KINNEAR Mfg. Co. Factories: 2100-20 Fields Ave., Columbus 16, Ohio
1742 Yosemite Ave., San Francisco 24, Calif.

OFFICES AND AGENTS IN ALL PRINCIPAL CITIES



COMMERCIAL CAR JOURNAL'S ANNUAL BUYERS' DIRECTORY NUMBER

TOOLS, Piston Ring, Groove Cleaning —continued

Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif. "Sta-Put."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut." (Regrooving & cleaning lathe.)
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Spring Spreading

Mesco Products, Crete, Nebr.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., South St., New Britain, Conn.
Truth Tool Co., 711 S. Front St., Mankato, Minn. (For Ford cars.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Thread Restoring

Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Buckingham Mfg. Co., Inc., 75-77 Travis St., Binghamton, N. Y.
Excellor Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Valve stem.)
Grayson Tool Co., 1412 W. 2nd St., Hastings, Nebr. (axle)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich. (axle)

TOOLS, Tire

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
Bishman Mfg. Co., Osseo, Minn.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn. "Thor." "Hi-Power."
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass. (Bead breaker.)
Cam Tool Co., 288 22nd St., Oakland 12, Calif. "Cam" (Tire changes, also bead breaker; "Burch" tire lifters.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Coyle Co., Perry J., 916 Fifth Ave., N., Birmingham, Ala. "Universal."
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio. (Tire valve tools.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland 6, Ohio. (Hammers.)
Greb Co., 181 Canton St., Stoughton, Mass.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hennessy Co., Jack P., P. O. Box 22, Audubon Station, New York 32, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand." "Van Chrome."
Hoggson & Pettis Mfr. Co., 141 Brewery St., New Haven, Conn.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y. (Pneumatic.)
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.
Kirspl Industries, Inc., Livingston, N. J.
Lectrolite Corp., Hickory St., Defiance, Ohio.
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 16, Ill.
Mesco Products, Crete, Nebr. (Trucks.)
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
New Britain Machine Co., South St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Speedmaster, Ltd., 630 E. 10th St., Oakland 4, Calif. (Bead breakers.)
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.

FAMOUS
INDIANAPOLIS
RECORD-
BREAKER

BLUE CROWN



HENRY BANKS

famous race driver pilots BLUE CROWN SPARK PLUG SPECIAL to victory in 1950 AAA Championship. Driving a BLUE CROWN SPARK PLUG SPECIAL during the entire grueling racing season against America's top competition, Banks did not make a single stop for spark plug change. This achievement again proves BLUE CROWN'S superiority.

3-TIME WINNER INDIANAPOLIS 500-MILE CLASSIC

After breaking all Indianapolis Speedway records for 4 consecutive years (1947-50) and winning three 1st places (1947-49), the amazing BLUE CROWN SPARK PLUG team of men, machines and spark plugs have now added the coveted AAA Championship to its laurels. Playing an important role in this spectacular achievement are Blue Crown Spark Plugs.

MANY OF AMERICA'S LARGEST FLEETS DEPEND ON BLUE CROWN X-CITERS

Scientifically designed to give greater combustion plus extra power, Blue Crown X-Citer Spark Plugs feature the new, patented, double-gap construction. This super-efficient design produces a powerful double ionizing effect over the entire sparking area, resulting in a bigger, stronger spark for that important extra power. You'll find that Blue Crown Spark Plugs are ruggedly built for long range dependability and perfect performance under most severe motoring conditions.

On your next service job install
a set of Blue Crown Spark
Plugs . . . AMERICA'S FINEST.

America's Finest



NEW PATENTED DOUBLE GAP X-CITER PLUG . . .

- LESS FOULING
- GREATER FUEL ECONOMY
- EASIER ALL-WEATHER STARTING
- LONGER GAP LIFE
- BETTER IDLING
- LONGER TOP PERFORMANCE



DOMESTIC SALES
BLUE CROWN SPARK PLUG CO.
a DIVISION of MOTOR MASTER PRODUCTS CORP.
1800 WINNEMAC AVENUE, CHICAGO 40, ILLINOIS

EXPORT SALES
Borg-Warner International Corp.
CHICAGO 4, ILLINOIS U.S.A.
Cable Address "BORINTCO"

TOOLS, Tire—continued

Vicheck Tool Co., 3001 E. 87th St., Cleveland 4, Ohio.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Chain Attaching

American Chain Div., American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Zip-On."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

TOOLS, Tire Chain Repair

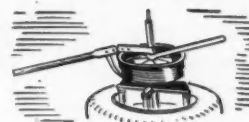
American Chain Div. of American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Weed."

Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Columbus-McKinnon Chain Corp., Tonawanda, N. Y. "Dreadnaught."
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Manley Mfg. Div., American Chain Co., E. Princess & Charles Sts., York, Pa.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Linkfix," "Linkmaster."
St. Pierre Chain Corp., Frank St., Worcester, Mass. "Giant."

TOOLS, Tire Removing and Replacing

Big Four Industries, Inc., 5938 Carthage Ave., Cincinnati 12, Ohio. "Henderson."
Bishman Mfg. Co., Osseo, Minn.
Branick Mfg. Co., Fargo, N. D.

Coats Loaders & Stackers, Inc., 3001 Fifth Ave., S., Fort Dodge, Iowa. "Iron Tireman."
Gemco Products Co., Murray Rd. & Big Four R. R., Cincinnati 17, Ohio.



Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Kerkling-Martin, Inc., San Fernando, Calif.
Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. "Presto." (Hand or Hydraulically operated.)
Salsbury Corp., Tiremaster Div., 1161 E. Florence Ave., Los Angeles 1, Calif. "Weaver-Day."
Wata Enterprises, P. O. Box 1117, Miami 35, Fla. "Tirematic."
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Spreading

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. "Bear Jiffy."
Bishman Mfg. Co., Osseo, Minn.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Center Line Mfg. Co., 506 N. Wichita St., Wichita, Kan.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Inland Rubber Corp., 33 S. Clark St., Chicago 3, Ill.
Keel & Co., 65 W. Penn St., Philadelphia 44 Pa. "Klear-Vu," "Visaversa."
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Kennedy Service Tools Co., P. O. Box 28, Mogadore, Ohio. (Air, hand and hydraulic.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Lesterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Mesco Products, Crete, Nebr.
Miller Mfg. Corp., C. E., 1400 Meridian St., Anderson, Ind.
New Britain Machine Co., South St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Pneumatic.)
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.

TOOLS, Tire Valve Rethreading

Acme Air Appliance Co., 100 Hinsdale St., Glenmore, Brooklyn 7, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Mfg. Co., Inc., 15-08 43rd Ave., Long Island City, L. I., N. Y.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago 3, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Rooter Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schrader's Son Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.

TOOLS, Tube Cutting & Flaring

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Aeroquip Corp., Jackson, Mich.
Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 3, Conn.
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Cal-Van Machine Products, Inc., 801 S. Water St., Jackson, Mich.



CENTURY LP-GAS CARBURETION, designed for every engine, is comprised of three simple units; 1) the single or dual throat carburetor, 2) the converter and 3) the strainer and fuelock. Installation is easy.

Century Carburetors accurately proportion fuel and air by a metering valve which is controlled by the throttle. This valve delivers a balanced distribution of fuel to all cylinders for peak performance, insures easy starting and perfect idling under all weather conditions.

CENTURY GAS EQUIPMENT CO.
11188 LONG BEACH BLVD., LYNNWOOD, CALIF.

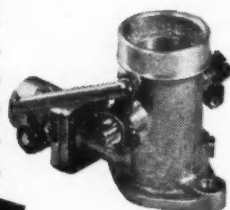
Oldest Manufacturer of LP-Gas Carburetion

SET IT
SEAL IT
AND FORGET IT
CENTURY

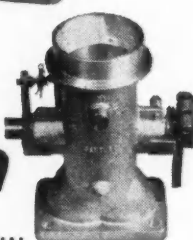
Sold only
through distributors
or to original equipment
manufacturers.



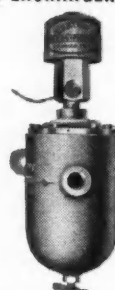
CARBURETORS for LP-Gas



1 SINGLE OR DUAL
THROAT CARBURETORS



2 CONVERTER OR
REGULATOR HEAT EXCHANGER



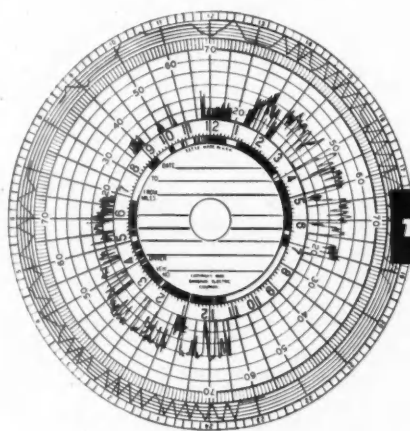
3 COMBINATION
STRAINER AND FUELOCK

TACHOGRAPH

THE TIME-TESTED RECORDING SPEEDOMETER

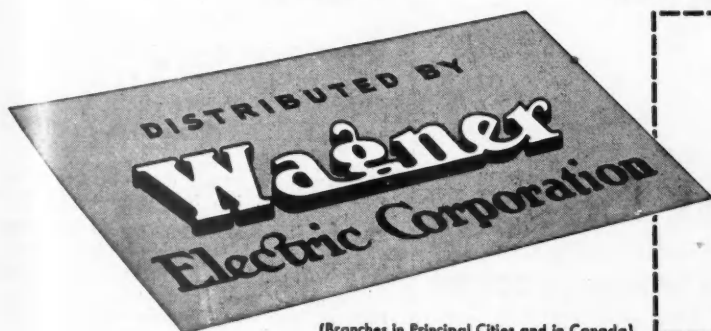


RED LIGHT
WARNING WHEN
SET SPEED IS
EXCEEDED



THIS CHART AUTOMATICALLY RECORDS...

- WHEN ENGINE STARTED
- HOW LONG ENGINE IDLED
- WHEN VEHICLE WAS IN MOTION
- HOW FAST IT TRAVELED
- WHEN VEHICLE STOPPED
- DISTANCE TRAVELED BETWEEN STOPS



(Branches in Principal Cities and in Canada)

Wagner Electric Corporation

6476 PLYMOUTH AVE., ST. LOUIS 14, MO.

Please send a copy of Bulletin SU-3B.

Name and Position _____

Company _____

Address _____

City _____ State _____

We operate _____ Vehicles
(NUMBER)

"Gives us a true record of miles driven, hours on duty, delay time, and help in computing pay rolls and hours of service."

* DOHRN TRANSFER COMPANY

The excerpt above is typical of the many favorable expressions made by hundreds of large fleet operators who have installed these time-tested instruments.

Today, to make over-the-road trucking profitable, drivers and fleet owners must have real confidence in each other. Operations must be on a basis of mutual understanding so that payloads move smoothly and a lasting, profitable relationship results.

Drivers have found that Tachographs are their "buddies" because they give a charted record of the entire trip and prove their good driving habits. Owners find that Tachograph equipped vehicles have fewer accidents . . . spend less time in the repair shop . . . and earn lower insurance rates. If you have not installed Tachographs on your fleet write for Bulletin SU-3B and get complete information.

**TOOLS, Tube Cutting and Flaring—
continued**

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Ereco."
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Flaremaster."
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
G. M. Mfg. Co., Inc., 43-10 21st St., Long Island City, L. I., N. Y.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.

J & J Machine Co., 15420 St. Clair Ave., Cleveland 10, Ohio. "Jet-Vac," (Sole distributors, Beal Bros., Inc., Box 86, Cleveland, Ohio.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Logansport Machine Co., Center Ave., Logansport, Ind.
Miller Mfg. Co., 5919 Tiriman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Penn Brass & Copper Co., Powell Ave., Erie, Pa.

Rooter Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

**TOOLS, Valve Grinding or Lapping
(Hand)**

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Carston Mfg. Co., 431 W. 28th St., New York 1, N. Y.
Central Auto Ignition Co., 2230 S. Wood St., Chicago, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Mfg. Co., Inc., 43-10 21st St., Long Island City, L. I., N. Y.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Vacuum.)
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
New Britain Machine Co., South St., New Britain, Conn.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipeco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Spraker Mfg. Co., 1411 E. 20th St., Indianapolis 7, Ind.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Guide Cleaning

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
C-B Tool Co., Wabank Rd., Lancaster, Pa. (Hand.)
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor"
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Co., L. B., 394 State St., Stamford, Conn.
M-M-A, Inc., 411 Lancaster, Pa. "C-B."
New Britain Machine Co., South St., New Britain, Conn.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. "Even Trim." (Brushes, for hand use or with portable drills.)
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto."
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Scully Steel Products Co., 1319 Wabansia Ave., Chicago, Ill. "Ruggles Perfection." (Hand.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. (For use with electric drills.)
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

**TOOLS, Valve Guide Installing and
Removing**

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif. (For Ford cars.)
Bishman Mfg. Co., Osseo, Minn.
Cornwell Quality Tools Co., Mogadore, Ohio.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Slick."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.

FEDERAL BALL BEARING OF THE MONTH



from the most
complete automotive
ball bearing line
anywhere!

Manufactured to original equipment—Federal specifications. Under factory supervision, bearings are mounted properly on carrier sleeves. This means insurance against comeback—saves time and labor expense.

Add Up These Advantages of FEDERAL BALL BEARINGS

1. Complete coverage—Immediate Jobber Service backed by complete warehouse and factory stocks near you.
2. Original equipment acceptance—proof of quality and customer satisfaction—a powerful sales tool.
3. Obsolescence protection—Every bearing in the Federal line is classified according to market demand and fully protected against obsolescence.
4. Complete application catalogs—including 1951 automotive equipment. Complete up-to-date interchange information.
5. Complete price information—Easy-to-read and complete suggested re-sale schedules at competitive prices.



★ Order **FEDERAL
BALL BEARINGS**
from your
**NAPA Jobber
or Warehouse**



FEDERAL BALL BEARINGS

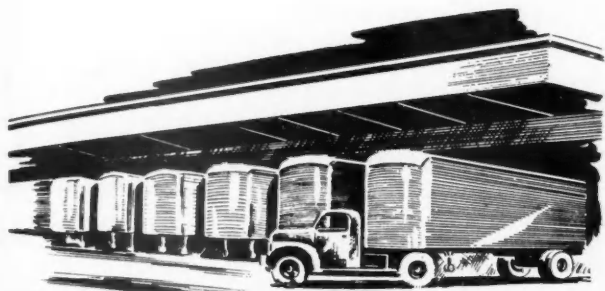
THE FEDERAL BEARINGS CO., INC., Poughkeepsie, N. Y.

THE MOST COMPLETE LINE OF BALL BEARINGS FOR THE AUTOMOTIVE INDUSTRY

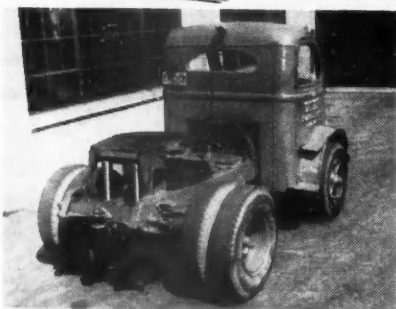
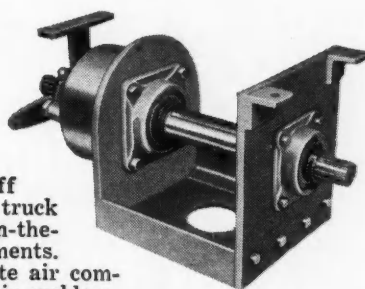
Quality Since 1908

CEMCO

*A Name that Has Meaning
in the Trucking Industry*



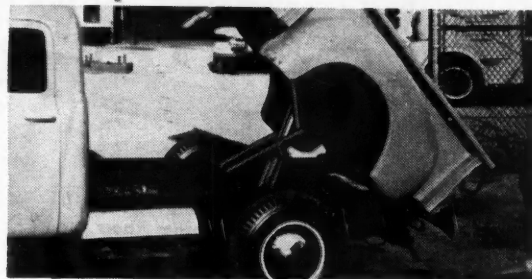
CEMCO Split-shaft Power Take-Off
Utilize your truck power for "on-the-job" requirements. Ideal for remote air compressors, electric welders, etc. Delivers full power of truck motor.



CEMCO

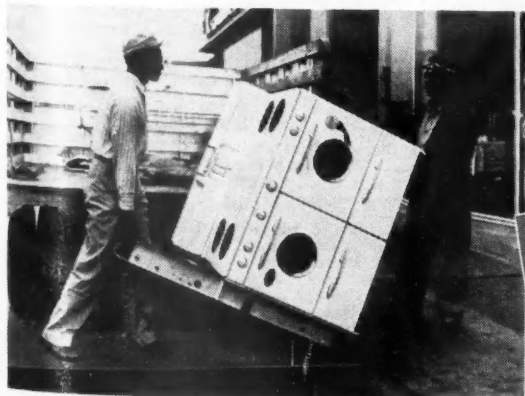
"Trailer Jockey"

Put hydraulic power under your fifth wheel. Spot trailers in half the usual time. Saves time of dock crew, too.



CEMCO Underbody Hoist

A sturdy, single cylinder unit with lifting capacity of 2 tons on 7' to 8' bodies, ($\frac{3}{4}$ and 1 ton pick ups) or, a twin cylinder unit of 4 ton capacity for 9' bodies. Subframe, at slight extra cost, simplifies installation.



CEMCO "Hydraul-lift" Tailgate

Fits most any truck or semi-trailer body. Lifts or lowers up to 2,000 pounds safely, with ease. Means fewer truckers and helpers—cuts down capital investment, cuts down personal injuries. Real savings!

CEMCO INDUSTRIES, INC.
GALION, OHIO

Gentlemen:

I'm interested. Please send me more information on your

- ☐ TRAILER JOCKEY
- ☐ HYDRAULIC TAILGATE
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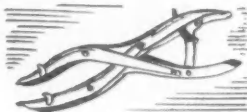
TOOLS, Valve Guide Removing & Installing—continued

Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill.

TOOLS, Valve Lifting and Spring Compressing

All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif. (For Ford cars.)
Associated Producers, Inc., 1603 Fisher Bldg., Detroit 2, Mich. "Easy-Way."
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.

Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.



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Airtight

USE *Heat-Resisting*
HI-TEMP
VALVE INSIDES AND CAPS
Developed by **DILL**

Wherever tire heat is a problem, fleet owners everywhere are equipping their tires with DILL HI-TEMPS. Under abnormal hot tire temperatures, even up to 300°F. and more, the newly developed heat-resisting air seal keeps Dill HI-TEMP valve insides and caps airtight. Prevent tire trouble—stop costly road delays and tire repair expense by equipping your tires with Dill HI-TEMPS, now. Your wholesaler, tire or oil company can supply you, today.



No. 100-AH
Valve inside with special heat-resisting rubber in cup and on barrel.



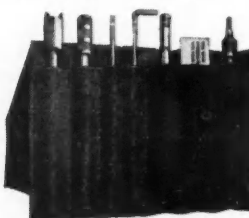
No. 632
Dome-type cap with swivel gasket of special heat-resisting rubber.



No. 631
Hexagon-type cap with lead gasket mounted over brass sleeve.



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INCLUDES THESE TOOLS

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- No. 5202** Valve Cap Tool
- No. 5203** Valve Inside "Easy-Out"
- No. 5204** Valve Stem Refacer
- No. 5205** Valve Stem Seat Cleaner
- No. 5206** Valve Stem Rethreader

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VALVE REPAIR TOOLS

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Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Slick."
New Britain Machine Co., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Sunnens Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Waterloo Valve Spring Compressor Co., 300 Ansbrough Ave., Waterloo, Iowa. "Little Wonder."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "KRW-Zim."
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Seat Installing and Removal

Bishman Mfg. Co., Osseo, Minn.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Speaker Mfg. Co., 1440 E. 19th St., Indianapolis, Ind.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Hand and power.)

TOOLS, Valve Seat Refinishing

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Alvord-Polk Tool Co., 110 Gearhart St., Millersburg, Pa. "Alpo."
Beard Tool Co., L. O. Andrew & Mill Sts., Lancaster, Pa.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
New Britain Machine Co., South St., New Britain, Conn.
Rottler Boring Bar Co., 513 N. 36th St., Seattle, Wash.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md. "Vibro-Centric."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Wire Stripping

Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

TORCHES, Hand

Bernz Co., Inc., Otto, Rochester, N. Y.
Precision Engineering & Mfg. Co., Saginaw, Mich.
Pressure Products Corp., 140 N. Dearborn St., Chicago 2, Ill. "Prepo."

TORQUE WRENCHES, See Wrenches, Torque

TOWERS, Repair or Service

(For use in overhead repairs)
Crown Steel Products Co., Orrville, Ohio. (Ladders.)
De-Lux Neon Mfg. Co., 1007 N.W. 36th St., Oklahoma City 3, Okla. "Memco" (Ladders.)
Dow Body Co., Henry E., 1600 Chambers St., Trenton 10, N. J. "Trenton Utility."
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 16, Mo. "Power-American."

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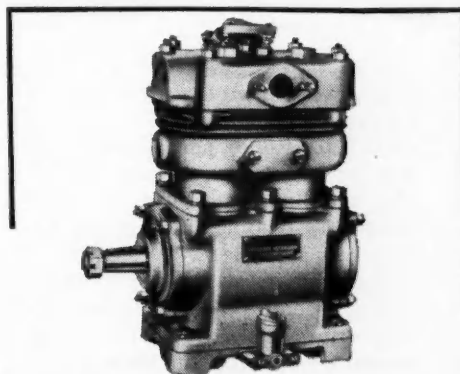
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TOWERS, Repair or Service—continued
Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.

TOWING EQUIPMENT. See Hooks, Tow; also Bars, Towing; also Cranes, Service Truck

TRAILERS, Automobile Transport
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich.
Whitehead & Kales., 58 Haltiner St., River Rouge 18, Mich. "W & K."

TRAILERS, Commercial
Ace Trailer & Equipment Co., Div. Reliable Automotive Co., H & San Joaquin Sts., Fresno, Cal. (6-wheel, 4-wheel and semi.)

All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill. "Clark." (Two-wheel utility.)

American Body & Trailer, Inc., P. O. Box 1150 Oklahoma City 1, Okla. (Semi.)

American Trailer & Mfg. Co., 1017 Santa Fe Ave., Los Angeles 21, Cal. (Also one-wheel type.)

Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.

Artisan Products, Inc., 3490 W. 140th St., Cleveland, Ohio. "Craftsman." (Two-wheel utility.)

Athey Products Corp., 5631 W. 65th St., Chicago 38, Ill. (Off-the-highway.)

Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa. "Berger" (to order).

Available Truck Co., 2501 Elston Ave., Chicago 47, Ill. (Semi and four-wheel.)

Baker Equipment Engineering Co., Summit & Norfolk Sts., Richmond 11, Va. (Lumber, log, pole and semi.)



Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.

Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.

Beal Pipe & Tank Corp., 12005 N. Burgard St., Portland 3, Ore. (Freight, logging and machinery.)

Birmingham Mfg. Co., 2001 N. 50th Way (P. O. Box 2838), Birmingham, Ala. (Low bed machinery.)

Black Diamond Trailer Co., Euclid Ave., Bristol, Va.

Brown Equipment & Mfg. Co., 1740 Broadway, New York 19, N. Y.

Brown Trailers, Inc., Box 54, Spokane 1, Wash. (Aluminum, cargo & van.)

Bunyan Co., Paul, 1602 Cove Ave., La Grande, Ore. "Paul Bunyan."

Cato Trailer Service, Greenville, S. C.

Carlisle Machine Works, Box 8, Longview, Tex. (Dump, stock and pick-up.)

Chadwick Inc., Seventh St. & Keystone Ave., Darby, Pa. (Also low-bed machinery.)

Clark Co., B. M., Union, Maine.

Commercial Sales Co., Div. of Cochran & Celli, 1100 Eighth Ave., Oakland 6, Calif.

Cook Bros. Equipment Co., 1815 N. Broadway, Los Angeles 65, Calif.

Corbitt Co., Henderson, N. C. (Semi, van and flat.)

Cresci, A., & Sons, Vineland, N. J.

Dart Truck Co., 27th & Oak Sts., Kansas City, Mo. (Semi, 4-wheel, pole & machinery.)

Dorsey Trailers, Inc., Elba, Ala. (Van, stake, platform, pole and machinery.)

Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. (Public utility.)

Easton Car & Construction Co., Easton, Pa. (Off-the-highway, for mines, quarries, etc.)

Edwards Trailer & Body Co., Div. of Edwards Iron Works, 2901 S. Main St., South Bend 23, Ind. (Semi, 4-wheel, dump, etc.)

Evans Mfg. Co., John, 108 E. Liberty St., Sumter, S. C. (Semi, flat, log, lumber and van.)

F.A.B. Mfg. Co., 1249 67th St., Oakland 8, Cal. "Fabco." (Full, semi and log.)

Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Oilfield, logging, low bed, etc.)

Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala. (Bus and low-bed machinery.)

Fruehauf-Carter Div. Fruehauf Trailer Co., 587 Hernando St., (P. O. Box 2086), Memphis, Tenn.

Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.

Gibbs Machinery Co., 1029 Wheat St., Columbia, S. C. (Platform and pole.)

Gindy Mfg. Corp., Downingtown, Pa.

Gramm Trailer Corp., First Lima Bldg., Lima, Ohio. (Semi and 4-wheel.)

Halsey Machine & Mfg Co., 131 Arrowhead Ave., San Bernardino, Calif. (Vegetable.)

Hanson Clutch & Machinery Co., Wall & Miami Sts., Tiffin 15, Ohio. (Machinery.)

Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.

Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.

Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio. (Pole.)

Humes Truck & Trailer Mfg. Co., 907 Franklin Ave., Steubenville, Ohio.

Hyde Corp., 1405 Calhoun St., Fort Worth, Tex.

Jahn Trailer Div. Pressed Steel Car Co., 6 N. Michigan Ave., Chicago, Ill.

Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.

Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.

Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."

Kramer Wagon Co., Oil City, Pa. (Utility.)

La Crosse Trailer Corp., P. O. Box A, La Crosse, Wis. (Also machinery.)



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Langlois Bros., 717 S. San Pedro St., Los Angeles 14, Calif.

Love Wagon Co., Durant, Miss. (Two and four wheel farm.)

Lufkin Foundry and Machine Co., Lufkin, Tex. (Van, platform, float, pole, low boy, etc.)

McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers." (Hydraulic dump; "Powers-American.")

McKay Mfg. Co., John A., Dunn, N. C. "McKay Sturdybilt."

Martin Machine Co., South & Tenney Sts., Kewanee, Ill. Heavy duty machinery; sole distributors, Caterpillar Tractor Co., 600 W. Washington St., Peoria 8, Ill.

Mastercraft Trailers, Inc., 1 Factory St., Middletown, Conn. (Two-wheel utility.)

Meili-Blumberg Co., 1615 Wisconsin Ave., New Holstein, Wis. "M-B." (Two wheel, tractor and implement.)

Miami Specialties Co., 221 S. Plum St., Troy, Ohio.

Miller Trailers, Inc., 708 3rd St., Bradenton, Fla.

Montgomery Body & Trailer Mfg. Co., Route 37 South, Salem, Ill.

Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich. (Tilting-platform.)

Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Two-wheel utility.) "Carry-All."

Nabors Co., W. C., Mansfield, La.

Ohio Body Mfg. Co., New London, Ohio. "Cargo Chief." (Semi.)

Olson Mfg. 4000 Warm Springs Ave., Boise, Idaho.

Omaha Standard Body Corp., 2411 W. Broadway, Council Bluffs, Iowa. (Semi.)

Oren Fire Apparatus Co., 1201 W. Salem Ave., Roanoke, Va. (Fire pumping units.)

Page & Page Co., 0605 S. W. Curry St., Portland 1, Ore. (Dual axle logging.)

Palace Corp., Flint 1, Mich.

Pierce Trailer & Equipment Co., 1306 S. E. Ninth Ave., Portland 14, Ore. (Logging, lumber and semi.)

Pointer-Willamette Co., P. O. Box 368, Edmonds, Wash. (Machinery and highway.)

Regent Mfg. Co., 11905 Regentview Ave., Downey, Calif. (two-wheel.)

Rehberger & Son, Inc., Arthur, 316 Ferry St., Newark 5, N. J. "Tip-Top."

Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal. (Also logging.)

Schayer & Badinger, Inc., 728 S. Saratoga St., New Orleans 12, La. (Two or four-wheel.)

Schult Corp., 1800 S. Main St., Elkhart, Ind.

Spencer-Saffard Loadcraft, Inc., Augusta, Kan. (Semi, pole and four-wheel.)

Stahl Metal Products Inc., 3490 W. 140th St., Cleveland 11, Ohio.

Steel Products Co., P. O. Box 1007, Savannah, Ga. "Great-Dane."

Strick Co., Whitaker Ave. at Godfrey, Philadelphia 24, Pa.

Superior Trailer Mfg. Corp., 1125 Georgia St., Indianapolis, Ind.

Thomas & Co., Peter, 1320 Main St., Seattle 22, Mass.

Thompson Trailer Corp., P. O. Box 3067, Alexandria, Va.

Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.

Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa. (Semi.)

Trailmobile Co., 31st & Robertson Aves., Cincinnati 9, Ohio.

Transport Bodies & Equipment Co., 3939 N. W. St., Helens Rd., Portland 10, Ore. (Also logging.)

Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC." (Four-wheel, semi and pole.)

Tyler Equipment Co., P. O. Box 1674, Houston 1, Tex.

United Mfg. Co., 30 E. Interstate St., Bedford, Ohio. (Utility.) "Caravan."

Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Cal.

Veenema & Wieggers, Inc., 241 N. Tenth St., Paterson 2, N. J. "V & W" (Chassis-less.)

Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Cal. (Semi, four, six-wheel and machinery.)

Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Also logging and lo-bed.)

Whithead & Kates Co., 58 Haltiner St., River Rouge 18, Mich. "W. & K."

Wiedman Body & Trailerplane Co., 35 Allen St., North Tonawanda, N. Y. "Trailerplanes." (Business display.)

Williamson Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah. "Wabco."

Winter-Weiss Co., 2201 Blake St., Denver 2, Colo. (Low bed machinery and farm.)

TRANSMISSION JACKS, See Jacks, Transmission

TRANSMISSION STANDS, See Stands, Engine and Transmission Repair

TRANSMISSIONS

Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."

Clark Equipment Co., Jackson, Mich.

Cotta Transmission Co., 2340 11th St., Rockford, Ill.

Detroit Gear Div., Borg-Warner Corp., 12345 Kercheval Ave., Detroit 14, Mich. (Truck, tractor and bus.)

Detroit Transmission Div., General Motors Corp., 5140 Riopelle St., Detroit 11, Mich. "HydraMatic."

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich. (Truck.)

Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe" (Bus and truck.)

Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Also automatic.)

TRANSMISSIONS, Auxiliary

Allison, Div. General Motors Corp., W. 10th St. at Grande Ave. (Speedway), Indianapolis 6, Ind. "Torqmatic."

Borg & Beck Div. Borg-Warner Corp., 6558 S. Menard Ave., Chicago 38, Ill. "B & B."

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.

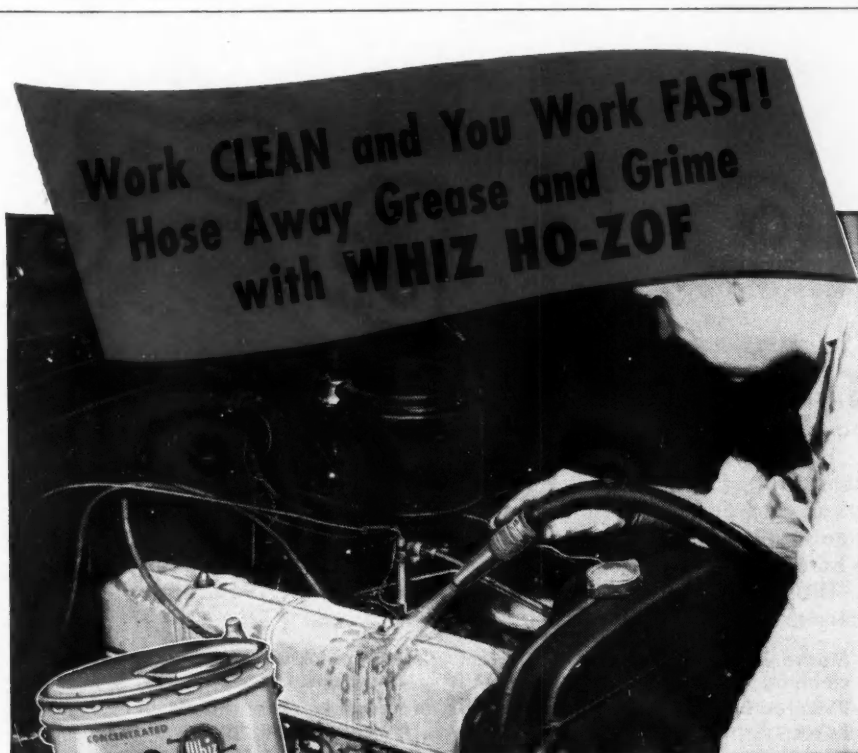
Sherman Products, Inc., 3200 W. 14 Mile Rd., Royal Oak, Mich. (Tractor)

Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe."

Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio. (Overdrive, for Chevrolet cars.)

Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Overdrive unit.)

Watson Co., H. S., 1316 67th St., Oakland 8, Calif. "Watson-Brown-Lipe."



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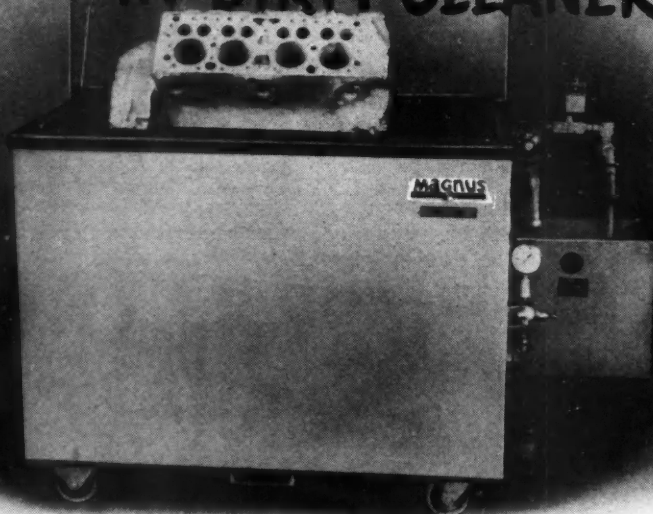
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That's only one of the features of the great new 1952 Magnus Aja-Lif. Here are others:

- Mechanical agitation cuts hours from cleaning time.
- Powered by your air compressor (Air-Powered—not Air-Agitated).
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- Low initial cost—low upkeep.
- Eliminates worker fatigue from handling parts.
- Keeps workers' hands out of strong cleaning solutions.
- Uses low-cost Magnus cleaning compounds.
- Eliminates costly hand labor.
- Cleans any parts including blocks.
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- Quiet operation.
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Coleman Motors Corp., Littleton, Colo.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 65, Calif.
Corbitt Co., Henderson, N. C.
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo.
Diamond T Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
Eisenhauer Mfg. Co., 329 Center St., Van Wert, Ohio. (Twin Engine Trucks.)
Euclid Road Machinery Co., 1361 Chardon Rd., Cleveland 17, Ohio. (Dump, for off-the-highway service.)
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Freightliner Corp., 1925 N.W. Quimby St., Portland, Ore.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle 8, Wash.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Marmon-Herrington Co., Inc., 1511 W. Washington, Indianapolis 7, Ind.
Oshkosh Motor Truck, Inc., 3203 Oregon St., Oshkosh, Wis.
Parsons Co., Newton, Iowa. "Dumpton." (For off-the-highway service.)
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
Sterling Div. The White Motor Co., 2021 S. 54th St., Milwaukee 1, Wis.
Studebaker Corp., 635 S. Main St., South Bend 27, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

TRUCKS, Fire Apparatus

American-LaFrance-Foamite Corp., 100 E. LaFrance St., Elmira, N. Y.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Boyer Fire Apparatus Co., Foot of Wheatland Ave., Logansport, Ind.
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
Kenworth Motor Trucks Corp., 8801 E. Marginal Way, Seattle 8, Wash.
McCann Corp., P. O. Box 1946, Portland, Me.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Maxim Motor Co., 170 Wareham St., Middleboro, Mass.
Oren Roanoke Corp., 1201 W. Salem Ave., Roanoke, Va.
Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.

TRUCKS (Gasoline)

Autocar Co., Lancaster Ave., Ardmore, Pa.
Available Truck Co., 2501 Elston Ave., Chicago, Ill.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Brockway Motor Co., 106 Central Ave., Cortland, N. Y.
Brown Equipment & Mfg. Co., 1740 Broadway, New York 19, N. Y.
Chevrolet Motor Div. of General Motors Corp., General Motors Bldg., Detroit 2, Mich.
Coleman Motors Corp., Littleton, Colo.
Cook Bros. Equipment Co., 1815 N. Broadway, Los Angeles 65, Calif.
Corbitt Co., Henderson, N. C.
Crosley Motors, Inc., 2530 Spring Grove Ave., Cincinnati 14, Ohio.
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo.

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"Thanks to Elston *Electric Sanders*, weather never stops Werner's! Our trucks leave and arrive *on schedule*—insuring profits on every run. Yes Sir, we consider ELSTON SANDERS one of the best investments we ever made. Costly road tie-ups are kept to a minimum, even through our worst winter months. Our drivers too, appreciate that added safety and protection that only ELSTON SANDERS can give them on the road."

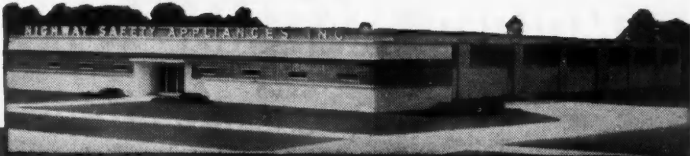
Highway Safety Elston *Electric Sanders* are, today, standard safety equipment on many fleets across the Nation. Get the facts and you'll get ELSTON SANDERS for your trucks today!

PROPER GRIT IS IMPORTANT!

For best results under all conditions, use either ELSTON SAFETY GRIT or a comparable grit that is non-freezing, free-flowing. ELSTON SAFETY GRIT is sold in 50. lb. moisture-proof bags.



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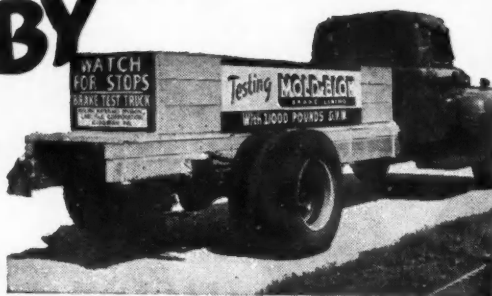
TRUCKS, Gasoline—continued

Diamond T. Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
 Diveco Corp., 22000 Hoover Rd., Detroit 5, Mich. (Frequent stop.)
 Dodge Div., Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich.
 Duplex Truck Co., Hazel St., Lansing 4, Mich.
 Esco Motor Co., c/o Exhibitor's Service Co., W. General Robinson St., N. S., Pittsburgh, Pa.
 Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
 Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich.
 Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."

GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
 Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
 Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
 International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
 Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle 8, Wash.
 Linn Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oneonta, N. Y. (Frequent stop.)
 Linn Mfg. Co., Lake St., Morris, N. Y. (Half-track for off-the-highway service.)
 Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.

Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind.
 Milford Crane & Machine Co., 841 63rd St., Brooklyn 20, N. Y. (4-axle crane truck and special purpose.)
 Oshkosh Motor Truck, Inc., 3203 Oregon St., Oshkosh, Wis.
 Parsons Co., Newton, Iowa. "Dumpton." (For off-the-highway service.)
 Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 6, Calif.
 Pontiac Motor Div. General Motors Corp., Pontiac 11, Mich.
 Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
 Spangler Engrg. & Sales Co., D. H., 426 S. Third St., Hamburg, Pa.
 Sterling Div., The White Motor Co., 2021 S. 54th St., Milwaukee 1, Wis.
 Studebaker Corp., 635 S. Main St., South Bend 27, Ind.
 Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio. (Conversions.)
 Twin Coach Co., 850 W. Main St., Kent, Ohio. "Fageol Super Freighter."
 Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.
 Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
 White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.
 Willys-Overland Motors, Inc., Wolcott Blvd., Toledo 1, Ohio. (Also jeeps.)

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MOLDED MATERIALS DIVISION
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TRUCKS, Hand

Aerol Co., 2820 Ontario St., Burbank, Calif.
 All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill. "Clark."
 American Pulley Co., 4200 Wissahickon Ave., Philadelphia 29, Pa.
 Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
 Armstrong Truck & Caster Div. of North Wales Foundry Co., North Wales, Pa.
 Bishman Mfg. Co., Osseo, Minn. "Start Cart." (Battery.)
 Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdex."
 Cam Tool Co., 288 22nd St., Oakland 12, Calif. "Ormsby."
 Chatillon & Sons, John, 85 Cliff St., New York 7, N. Y.
 Clark Co., Geo. P., 35 Canal St., Windsor Locks, Conn.
 Colson Corp., Elyria, Ohio.
 Continental-Diamond Fibre Co., Newark 10, Del. "Diamond." (Fibre.)
 Durlach Can & Iron Works, 174 Seventh St., Brooklyn 15, N. Y.
 Electric Wheel Co., Quincy, Ill. "EWC."
 Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio.
 Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
 Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
 Hamilton Caster & Mfg. Co., 1637 Dixie Highway, Hamilton, Ohio. "Morrison."
 Handees Co., Box 860, Bloomington, Ill.
 Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
 Howe Scale Co., 3 Scale Ave., Rutland, Vt. (Platform.)
 Illinois Iron & Bolt Co., 10 Main St., Carpentersville, Ill. "Hercules."
 International Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.
 Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio.
 Koehring Co., 8026 W. Concordia Ave., Milwaukee 10, Wis. "Dumpton."
 Lansing Co., 603 N. Cedar St., Lansing 3, Mich. "Lanco."
 Lewis-Shepard Products, Inc., 155 Walnut St., Watertown, Boston 72, Mass. "Floor-Master."
 Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. "MHS."
 Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
 National Store Specialty Co., Bareville, Pa.
 Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
 Rapids-Standard Co., 100 Rapistan Bldg., Grand Rapids 2, Mich. "Rapistan."
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
 Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio.
 Saginaw Products Corp., 68 Williamson St., Saginaw, Mich.
 Service Caster & Truck Corp., Albion, Mich.
 Standard Pressed Steel Co., Jenkintown, Pa. "Hallowell."

"ON EVERY COUNT..."

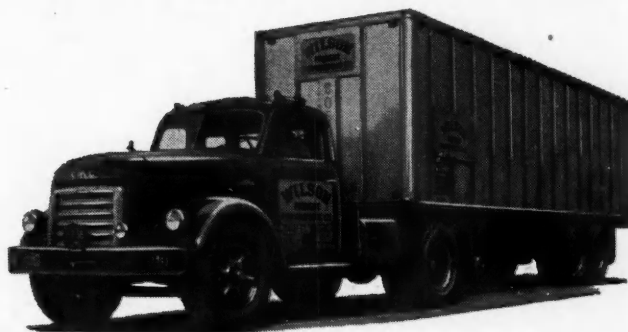
ORIGINAL MILEAGE—MORE RECAPS— MORE MILEAGE FROM RECAPS... IT'S DAYTON FOR US"



MR. GLENN P. RIDGE
Executive Vice President
and General Manager
Wilson Freight Forwarding Company
Cincinnati, Ohio

"34% more mileage — 32% more recaps! These percentages mean real *dollar savings* when we add up our tire expense," says Glenn Ridge of the Wilson Freight Forwarding Company. "Carefully kept, detailed cost records have made Dayton Thorobreds our No. 1 tire choice."

"And not only do we get *more original miles*, we get *greatest recap mileage* by using Dayton Thoro-Tred — the *Original Cold Rubber Camelback* — to recap Dayton's exceptionally strong tire carcasses. On every count, it's Dayton for us."



WILSON is one of the nation's top haulers. Last year Wilson's more than 800 pieces of equipment moved nearly a billion pounds of freight—traveled over 17 million miles. Fourteen major Wilson terminals serve a 10 state area—largely east of the main terminal in Cincinnati.

HERE'S WHY DAYTON THOROBRED TRUCK TIRES GIVE LOWEST COST-PER-MILE!

Tire for tire, each Dayton Thorobred weighs just a little more. Yes, a few *extra ounces* of just the right materials, scientifically used in just the right places, add *extra tire muscle* —extra miles.

More cords per inch in each ply . . .
more rubber and a *more even* insulation
coating around each Rayon Electroni-Cord* . . . *more steel wire* in the beads

* Only Thorobreds are made with Rayon Electroni-Cord . . . the most important tire cord development of the century.

... more material in the plies that wrap farther around the beads and up the side walls . . . all these result in a super strength carcass that will take recap after recap.

These are the reasons why outstanding haulers, like Wilson Freight Forwarding Company, get lowest cost-per-mile from Dayton Thorobred truck tires.

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A COMPLETE LINE OF TRUCK AND PASSENGER TIRES—EVERY ONE A THOROBRED!

The Highway Extra Mileage is one of seven great Dayton Thorobreds—each engineered for a specific type of trucking service.



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TRUCKS, Hand—continued

Thomas Truck & Caster Co., 1021 Mississippi River, Keokuk, Iowa. "Jak - Tung," "Thomas."
Wellington Machine Co., 133 DeWolf St., Wellington, Ohio. (Hydraulic)
West Bend Equipment Corp., 216 S. Water St., West Bend, Wis. "Spring Bearing."

TRUCKS, Lift (Electrically Operated)

Automatic Transportation Co., Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago, Ill. "Skylift."
Baker Industrial Truck Div. of Baker-Raulang Co., 1211 80th St., Cleveland 2, Ohio. (Electric or gas-electric.)

Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich. "Clark Elec-Car-loader," "Clark Elec-Clipper," "Clark Elec-Trucloder," "Clark Elec - Utilitrac," "Clark Electro-Lift."
Crescent Truck Co., 1035 Willow St., Lebanon, Pa.
Easton Car & Construction Co., Easton, Pa.
Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio. "Hi-Lo." (Also gas-electric.)
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown, Boston 72, Mass.
Market Forge Co., 25 Garvey St., Everett, Mass. "Load-Mobile."

Mercury Mfg. Co., 4644 S. Halstead St., Chicago 9, Ill.
Moto-Truc Co., 1953 E. 59th St., Cleveland, Ohio.
Raymond Corp., 151 Madison St., Greene, N. Y.
Revolator Co., U. S. Route 1 at 86th St., North Bergen, N. J.
Service Caster & Truck Corp., Albion, Mich.
Wright-Hubbard Industrial Electric Truck Co., Pleasant St., Phelps, N. Y.
Yale & Towne Mfg. Co., 4530 Tacony St., Philadelphia 24, Pa.

TRUCKS, Lift (Gasoline Powered)

Baker Industrial Truck Div. of Baker-Raulang Co., 1211 W. 80th St., Cleveland 2, Ohio. (Also gas-electric.)
Buda Co., Harvey, Ill.
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich. "Clark Carloader," "Clark Clipper," "Clark Hydro-Lift," "Clark Trucloder," "Clark Utilitrac," "Clark Yardlift."
Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio. (Also gas-electric.)
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio. "Hitco."
Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown, Boston 72, Mass. "Standrive."
Mobilift Corp., 835 S.E. Main St., Portland 14, Ore.
Moto-Truc Co., 1953 E. 59th St., Cleveland 3, Ohio.
Peterbilt Motors, Inc., 107th St. & MacArthur Blvd., Oakland 7, Calif.
Ross Carrier Co., Second & Miller Sts., Benton Harbor, Mich. (Also gas-electric straddle.)
Service Caster & Truck Corp., Albion, Mich. "Motowlifts."
Sient Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y. "Lift-O-Krane."
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.
Yale & Towne Mfg. Co., 4530 Tacony St., Philadelphia 24, Pa.

TRUCK LOADERS (ELEVATING TAIL-GATE). See Loaders, Truck (Elevating Tailgate)

TRUCKS, Rental (Nationwide)

Hertz Driv-Ur-Self System, 218 S. Wabash Ave., Chicago 4, Ill.
National Truck Leasing Systems, 23 E. Jackson Blvd., Chicago 4, Ill.

TRUCK TANKS, See Tanks, Trailer and Truck Body

TUBE FITTINGS

Aeroquip Corp., Jackson, Mich. (Self sealing couplings.)
Aircraft Fitting Co., 1400 E. 30th St., Cleveland 14, Ohio.
Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
Resistoflex Corp., Belleville 9, New Jersey.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 6, N. J.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

TUBES, Inner

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Carlisle Tire & Rubber Div., Carlisle Corp., 621 College St., Carlisle, Pa.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio. "Dayton," "Thorobred."
Dismuke Tire & Rubber Co., P. O. Box 308, Clarksdale, Miss. "D & J"
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio. "Life Protector."
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.

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What seals should I use on this bearing?
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 Your AFBDA "Bearing Specialist" can give you ready answers to these and all the countless questions that arise in the economical, efficient bearing operation. The members of the AFBDA are at your service night and day.

Their capacity to serve you is the sum total of all these credited distributor organizations' experience and research in bearing uses and maintenance procedures. They sell only new, "factory fresh" bearings . . . guaranteed by our AFBDA member *and* the manufacturer. Why not call your "Bearing Specialist" today. Let him help you keep production rolling without that needless 90%.



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 The answers to the questions above and all of the questions on bearing operation and maintenance are available to you in the continuing study of bearing maintenance practice, published periodically by the Association. Our publishing purpose is to assemble, for the first time, all improved practices in bearing maintenance, and to constantly add every new maintenance development . . . **WRITE FOR IT TODAY!**



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TUBES, Inner—continued

Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
 Kelly-Springfield Tire Co., Cumberland, Md.
 Lake Shore Tire & Rubber Co., Des Moines, Iowa.
 Lee Rubber & Tire Corp., Conshohocken, Pa.
 Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio. "Century," "Inland," "Mansfield," "Richland," "United."
 Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.
 Pennsylvania Rubber Co., P. O. Box 377, Mansfield, Ohio.
 Polson Rubber Co., Garrettsville, Ohio.
 Robbins Tire & Rubber Co., Tusculumbia, Ala.

Schenuit Rubber Co., Frank G., Railroad and Union Aves., Baltimore 11, Md.
 Seiberling Rubber Co., Akron 9, Ohio.
 United States Rubber Co., Rockefeller Center, 1230 Avenue of the Americas, New York 20, N. Y.
 Waber Co., 1076 W. 76th St., Chicago 20, Ill.

TUBING, Brass and Copper

American Brass Co., 414 Meadow St., Waterbury 20, Conn. "Anaconda."
 Attwood Brass Works, 745 Front St., Grand Rapids, Mich.
 Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
 Chase Brass and Copper Co., 236 Grand St., Waterbury 91, Conn.

Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Copper.)
 Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
 Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md. (Copper.)
 Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
 Kensico Tube Co., Hubbell's Cross Rd., Mt. Kisco, N. Y. (Copper.)
 Lewis-Mathes Co., 12th St. & Chouteau Ave., St. Louis, Mo. (Copper.)
 Linderne Tube Co., 1500 E. 219th St., Cleveland 17, Ohio.
 Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich. "Streamline."
 National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
 National Formetal Div. Federal-Mogul Corp., 6540 Metta Ave., Cleveland 14, Ohio. (Furnished to length desired.)
 Penn Brass & Copper Co., Powell Ave., Erie, Pa. "Superior."
 Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y. (Copper.)
 Preferred Electric & Wire Co., Rush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Revere Copper and Brass Inc., 230 Park Ave., New York 17, N. Y.
 Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn. (Brass.)
 United Wire & Supply Corp., 1497 Elmwood Ave., Providence 7, R. I.
 Wells & Co., A. H., E. Aurora St., Waterbury, Conn.
 Wolverine Tube Div., Calumet & Hecla Consolidated Copper Corp., 1411 Central Ave., Detroit 9, Mich.

TUBING, Flexible Metallic

Almond Mfg. Co., T. R., 100 Maple Ave., Ashburnham, Mass.
 American Brass Co., American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn.
 Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
 Chicago Metal Hose Corp., 1815 S. Third Ave., Maywood, Ill. "Rex-Flex," "Rex-Tube," "Rex-Weld."
 Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y. "Etico."
 Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
 Flexible Tubing Corp., New Whitfield St., Guilford, Conn. "Spiratube."
 Forsyth Metal Goods Co., Elm St., East Aurora, N. Y.
 Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
 International Metal Hose Co., Div. of Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio. "Interlox."
 Mulcaenroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
 National Electric Products Corp., 13th Floor, Chamber of Commerce Bldg., Pittsburgh 19, Pa. "Auto-Steelflex."
 Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa. "Penflexweld."
 Ryder Mfr. Co., 220 N. Ada St., Chicago 7, Ill. "Perma-Loc."
 Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
 Universal Metal Hose Co., 2133 S. Kedzie Ave., Chicago 23, Ill. "Steelflex"

TUBING, Loom

Anchor Webbing Co., 1005 Main St., Pawtucket, R. I.
 Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill. (Asbestos.)
 Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y. "Etico."
 Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
 Packard Electric Div., General Motors Corp., Warren, Ohio.

TUBING, Oil and Gasoline Line

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Flexible.)
 Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
 Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built." (Copper, with fittings, for Ford and Chevrolet cars.)

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● An outstanding value — a real quality flare. It's compact — husky — 5" shorter than previous FairWay model. Features patented BOLSTER nesting. Each flare has individual extinguishing cap with flag holder. When "nested" DOUBLE SEALS. Heavy gauge, all steel construction; sturdy steel bracket. Tear drop burner. Streamlined design — greatest eye appeal. Attractively priced. Baked enamel finish. Approved! Built to U. S. Commercial Standard's Specifications.

BOLSER — a full line of quality safety equipment. Latest in design and engineering — offers products that are known throughout the industry as the standard of comparison.

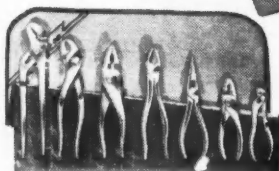


THE BOLSER CORP. Cedar Falls, Ia.

Give your men *Snap-on** Tools

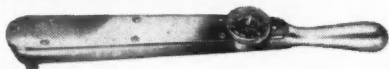


**the man's gift
that
builds good will!**



STANDARD PLIER SET — PL-70-K

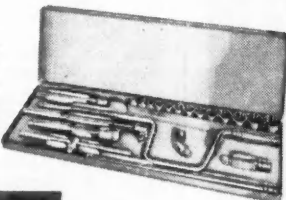
Seven fine Snap-on Vacuum-Grip Pliers that will handle every gripping, twisting, cutting, plier job in the shop. This set in durable kit bag makes a grand gift any mechanic will prize.



TORQOMETERS—Model TQ-150 shown—capacity zero to 150 foot-pounds—handles most jobs in the shop. Here's a tool every mechanic should own. When you eliminate mechanical distortion you safeguard your work. Other models up to 2,000 foot-pounds.

FERRET SET — 221-F-B

Saves time in the tight places! This popular 21-piece set of slim, sturdy wrenches includes 13 sockets, sliding bar, ratchet, nut spinner, speeder, universal joint and 3 extensions. This set handles the majority of nut turning jobs. Comes in special metal box.



SNAP-ON GIFT CERTIFICATES

—let the recipients choose their own pet Snap-on Tools. Your Snap-on man will make them out in whatever denominations you wish.

Your thoughtfulness in giving Snap-on Tools will be remembered long after many a more costly, short-lived gift would have been forgotten. They'll remind the men in your shop who receive them, time after time, that you valued their loyalty and respected their skill so much that you gave them the best. Could *any* present do more?

Snap-on Tools *build good will*. And it's *so easy* to make just the right choice, too. The Snap-on man who serves your shop knows mighty well (or can find out fast) exactly what tools each mechanic has had his eye on! Or—to show *complete* regard for a mechanic's personal preference—there's the Snap-on Gift Certificate, in any amount you wish.

Time's getting short, though. Why not take care of the matter **NOW**? Just buttonhole your Snap-on man.



SNAP-ON TOOLS CORPORATION

8026-K 28th Avenue, Kenosha, Wisconsin

*Snap-on is the trademark of Snap-on Tools Corporation

TUBING, Oil and Gasoline Line—cont.

American Brass Co., American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn. (Flexible, with fittings.)
Anchor Coupling Co., 842 N. Fourth St., Libertyville, Ill. (Flexible.)
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. (Flexible.)
Avon Tube Div. of Higbie Mfg. Co., Charles St., Rochester, Mich.
Bundy Tubing Co., 8109 Jefferson Ave., Detroit 13, Mich. (Solid.)
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube," "Rexweld." (Flexible.)

Coronet Parts Mfg. Co., 951 Sheperd Ave., Brooklyn, N. Y. (Flexible.)
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Edelmann & Co., E., 2232 Logan Blvd., Chicago 47, Ill. (Flexible.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Flexible.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. (Flexible.)
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Flex-Gas." (Flexible non-metallic, with fittings.)
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.

National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Flexible.)
Penn Brass & Copper Co., Powell Ave., Erie, Pa. "Superior." (Solid.)
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y. (Flexible.)
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Quaker Rubber Co., Tacony & Comly Sts., Philadelphia 24, Pa.
Resistoflex Corp., 39 Plansoen St., Belleville 9, N. J. (Flexible, with fittings.)
Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J. (Flexible.)
United Wire & Supply Co., 1497 Elmwood Ave., Providence 7, R. I.
Weatherhead Co., 309 E. 131st St., Cleveland 8, Ohio. (Flexible non-metallic.)
Wolverine Tube Div., Calumet & Hecla Consolidated Copper Corp., 1411 Central Ave., Detroit 9, Mich. (Solid.)



TRAILERS

● TEC offers a complete line of Dump Units, for hauling coal, sand, gravel and other bulk materials. Also stakes, flats and every other type of trailer and semi-trailer, including vans and numerous special body styles.

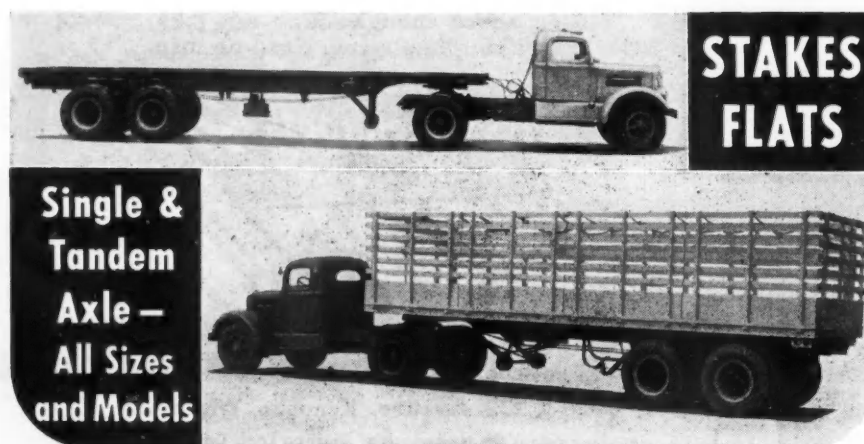
TEC engineers have long been leaders in the design of highly

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Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio. "Universal."
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Crown Products Co., Ralston, Neb.
Dallas Mfg. & Sales Co., Box 7181 Dallas, Tex. "Guard-A."
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Kravex Mfg. Corp., 273 Van Sinderen Ave., Brooklyn 7, N. Y. "KM"
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Servwell Products Co., 6019 Euclid Ave., Cleveland 3, Ohio.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."

TUNE-UP EQUIPMENT, See Analyzers

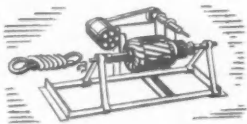
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Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. (Underbody.)
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio. (Underbody.)
Flexrock Co., Packing Div., 36th St., Philadelphia, Pa.
Flinkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
Gibson-Humans Co., 2366 Woodhill Rd., Cleveland, Ohio (Underbody.)
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Insul-Mastic Corp. of America, 1144 Oliver Bldg., Pittsburgh 22, Pa. "Karkote," (Mastic.)
Keystone Asphalt Products Co., 43 E. Ohio St., Chicago 11, Ill. "Kapco." (Under fender.)
Lion Oil Co., Lion Oil Bldg., El Dorado, Ark. "Nokorode." (Underbody.)
Minnesota Mining & Mfg. Co., Adhesive & Coatings Div., 411 Piquette Ave., Detroit 2, Mich. "Underseal." (Underbody.)
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Mortell Co., J. W., 550 N. Hobbie Ave., Kankakee, Ill. "Insulmat." "Mortex."
National Automotive Fibres, Inc., 19925 Hoover Ave., Detroit 5, Mich.
Nox-Rust Chemical Co., 2429 S. Halsted St., Chicago 8, Ill. "Nox-Sound."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. (Underbody.)
Pioneer Latex & Chemical Co., Lincoln Blvd., Middlesex, N. J. "Placco." (Underbody.)
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich. "Clair-Coat." (Underbody.)

Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa. "Braemul" (underbody).
Silvercote Products, Inc., 161 E. Erie St., Chicago 11, Ill.
Warren Refining & Chemical Co., 750 Prospect Ave., Cleveland 16, Ohio. "Vibra-Seal" (underbody).
Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill. "Witcote."

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Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Green Engineering Co., W. S., 212 W. St. Paul Ave., Waukesha, Wis. "Trucut."
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. (Portable electric.)
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Lemco Products, Inc., 5490 Dunham Road, Bedford, Ohio.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Red Devil Tools, Coit St., Irvington 11, N. J.
Rite Tool, Inc., 81 N. Seventh St., Fall River, Mass.
Weidenhoff, Inc., Joseph, 110 N. Franklin St., Chicago 6, Ill.
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut."

UNIFORMS, See Fabrics, Uniform

UNIVERSAL JOINTS

(See also Shafts, Propeller)

Almetal Universal Joint Co., 1553 E. 55th St., Cleveland 3, Ohio.
Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill.
Bashion & Sons Co., Henry, 40375 Grand River Ave., Farmington, Mich. "Head Line"
Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix-Weiss."
Blood Brothers Machine Co., Div. Standard Steel Spring Co., Allegan, Mich.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg-Warner."
Cleveland Steel Products Corp., 7306 Madison Ave., Cleveland 2, Ohio.
Gear Grinding Machine Co., 3901 Christopher Ave., Detroit 11, Mich. "Rzeppa."
Gray & Prior Machine Co., 614 Windsor St., Hartford, Conn. "Universal." (For power take-off application.)
Hercules Service Parts Corp., 15476 James Couzens Highway, Detroit 21, Mich.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Mechanics Universal Joint Div., Borg-Warner Corp., 2030 Harrison Ave., Rockford, Ill.
Morse Chain Co. (Div. of Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich. "Morfex."
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot."
Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.
New Process Gear Co., 500 Plum St., Syracuse, N. Y. "Trueta."
Parts Mfg. Co., 311 W. 66th St., N. Y. 23, N. Y. "Parco."
Pick Mfg. Co., West Bend, Wis.
Precision Universal Joint Corp., 616 S. California Ave., Chicago 12, Ill.
Rowland, Inc., William & Harvey, Frankford, Philadelphia 24, Pa.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer."
Standard Steel Spring Co., Coraopolis, Pa.
Stimmel Winch Co., 37-24 83rd St., Long Island City 1, N. Y.
Stow Mfg. Co., 445 State St., Binghamton, N. Y.
Torque Mfg. Co., 5239 Tillman Ave., Detroit 8, Mich. "Teddy Torque."
Universal Products Co., 6455 Kingsley Ave., Dearborn, Mich. "Detroit."
Western Automotive Co., 2118 S. Wabash Ave., Chicago 16, Ill.
Williams Engineering Corp., 224 Park Ave., Baltimore, Md.

Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

UPPER CYLINDER LUBRICANTS, See OIL Upper Cylinder

VALVE CLEANING TOOLS, See Tools, Valve Guide Cleaning

VALVE GRINDING COMPOUND, See Compounds, Valve Grinding

VALVE GRINDING HAND, See Tools, Valve Grinding and Lapping

VALVE GUIDES, See Guides, Valve

VALVE GUIDE INSTALLING AND REMOVING TOOLS, See Tools, Valve Guide Installing and Removing

VALVE LIFTERS, See Tools, Valve Lifting and Spring Compressing

VALVE REFACERS, See Refacers, Valve

VALVE SEAT GRINDERS, See Grinders, Valve Seat

VALVE SEAT INSERT, See Seats, Valve

VALVE SEAT INSTALLING, See Tools, Valve Seat Installing

VALVE SPRING TESTERS, See Testers, Valve and Clutch Spring

VALVES, Air Tank Drain

Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
Fleet Operators Service Laboratory, Main P. O. Box 117, Dearborn, Mich. (Automatic.)
Hamilton, L. L., 1908 N. E. 11th St., Oklahoma City, Okla. "Dritank"
Master Equipment Corp., 15 N. Broadway, Dayton, Ohio (Automatic)
National Pneumatic Co., Inc., Graybar Bldg., N. Y., N. Y. (Automatic)
Quincy Compressor Co., Quincy, Ill.

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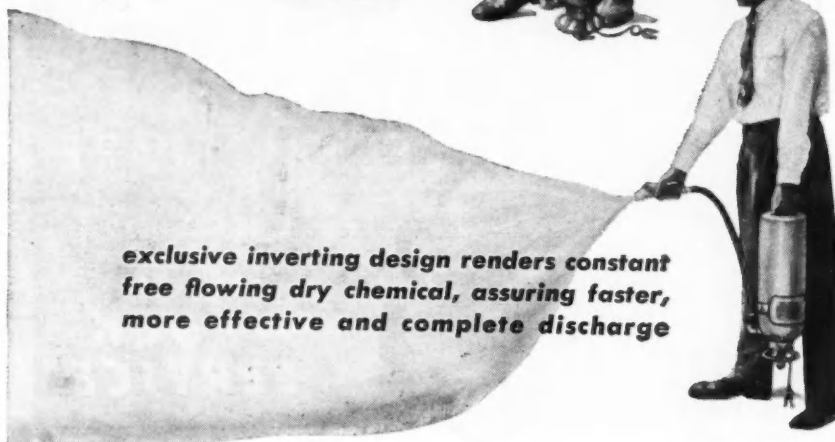
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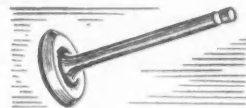
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VALVES, Engine Poppet



Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Eaton Mfg. Co., Valve Div., 9771 French Rd., Detroit, Mich.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Parts Processing Corp., 2100 Howard St., Detroit, Mich. "Par-Plus." (For trucks and buses.)
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Remco Products Corp., State & Hay Sts., York, Pa.
Rich Mfg. Co., Battle Creek, Mich. "R.M.C."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

VALVES, Gasoline Tank

Buckeye Iron & Brass Works, P. O. Box 883, Dayton 1, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Weatherhead Co., 300 E. 131st St., Cleveland 3, Ohio.

VALVES, Safety or Emergency

(For safeguarding contents of tanks)

Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Pa.
Feil Co., 3000 W. Montana St., Milwaukee 1, Wis.
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Shand & Jurs Co., 8th & Carlton Sts., Berkeley 10, Calif. "S & J"
Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pittsburgh, Pa.

VALVE TAPPETS, See Tappets, Valve

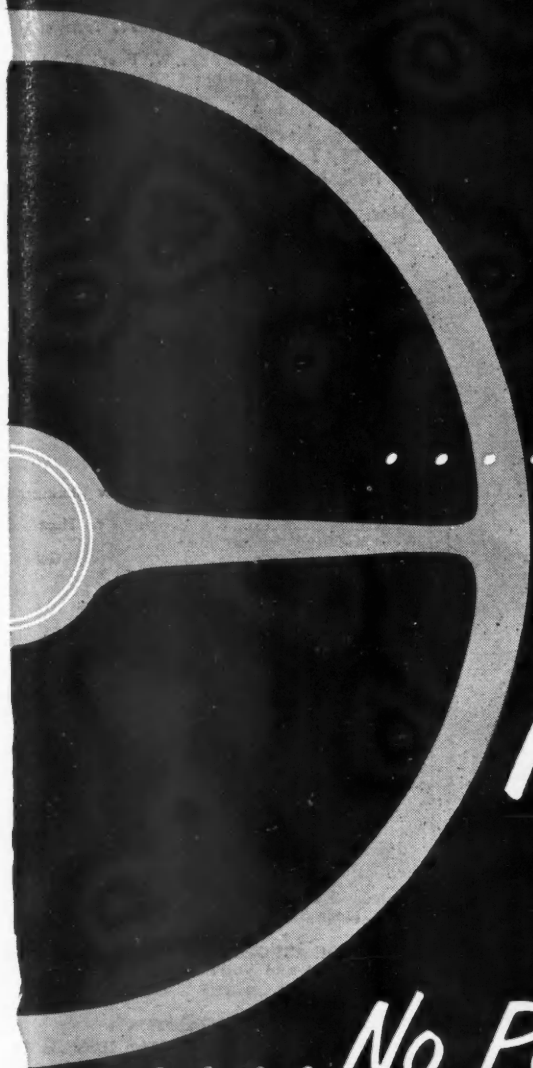
VALVES, Three-Way and Four-Way (Air)

Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Pa.
Branick Mfg. Co., Fargo, N. D.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Hamilton, L. L., 1908 N. E. 11 St., Oklahoma City, Okla. (Four-way)
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill.
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio. "Quick as Wink."
Ross Operating Valve Co., 120 E. Golden Gate Ave., Detroit 3, Mich.
Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pittsburgh, Pa.

VALVES, Tire

(See also Caps, Tire Valve)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. (Cores only.)
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y. (Cores only)



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Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Rite-Way Products Co., 39 W. E. H. Crump Blvd., Memphis 2, Tenn.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.

VENTILATORS, Bus and Truck

Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone." (Bus.)

Evans Products Co., Thermo-Aire Div., Plymouth, Mich. "Evans." (Bus and truck cab.)
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind. (Bus.)

VENTILATORS, Crankcase

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Donaldson Co., 666 Pelham Blvd., St. Paul 4, Minn.
Fram Corp., Providence 16, R. L.
Monarch Tool & Machinery Co., 3235 S. Racine Ave., Chicago 8, Ill.
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.

VENTILATOR, Exhaust Manifold

Flint Corp., 1310 W. Clybourn, Milwaukee, Wis.

VENTILATORS, Roof

Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. "Aerovent." (Bus.)
H & P Die & Stamping Co., 13945 Trishett Rd., Cleveland 11, Ohio.
Imperial Electric Co., 214 W. Pearl St., Union City, Ind. (Cab.)
Metalcraft Mfg. Co., 916 E. 23rd St., Indianapolis, Ind.

VENTS, Tank Body

McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.

VISCOSIMETERS

Precision Scientific Co., 3737 W. Cortland St., Chicago 47, Ill. "Saybolt."
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Auto oil.)

VICES, Piston

Evans Reamer & Machine Co., New Lexington, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Production Devices, Inc., N. Williams St., Whitehall, N. Y. "Airlox." (Pneumatic and hydraulic.)
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

VICES, Piston Pin

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Evans Reamer & Machine Co., New Lexington, Ohio.
Starret Co., L. S., 1 Crescent St., Athol, Mass.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. "Velvet Grip."
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.

VOLTAGE REGULATORS, See Regulators, Current and Voltage

VULCANIZERS, Portable

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Electric, tube.)
Bishman Mfg. Co., Osseo, Minn. (Tube.)
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. "Bowes Lectro Seal." (Electric tire.)
Dill Mfg. Co., 700 E. 82nd St., Cleveland 2, Ohio. "Dilletric." (Electric, tube.)
Lewis Equipment & Supply Co., 2740 Zuni St., Denver 11, Colo. "Tru-Cure." (Tube.)
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 W. Weil St., Milwaukee 12, Wis. "Electromatch," "Match Patch," "Speaker" (Electric, tire and tube).

VULCANIZERS, Shop

Allied Automotive Corp., 14512 Burt Rd., Detroit 23, Mich. "Tireweld."
Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Cal. (Steam and electric tube.)
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Cal. "Brown." (Electric and steam tube.)
Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio. (Steam tube.)
Center Line Mfg. Co., 506 N. Wichita St., Wichita, Kans. (Tube.)
Heintz & Co., James C., 3738 W. 143rd St., Cleveland, Ohio. (Tube.)
Las-Stik Mfr. Co., Wayne & B Sts., Hamilton, Ohio. (Electric.)
Menth Mfg. Co., 2201 Spring St., Houston 10, Tex. (Tire and tube.)
Shaler Co., Waupum, Wis. (Tire.)

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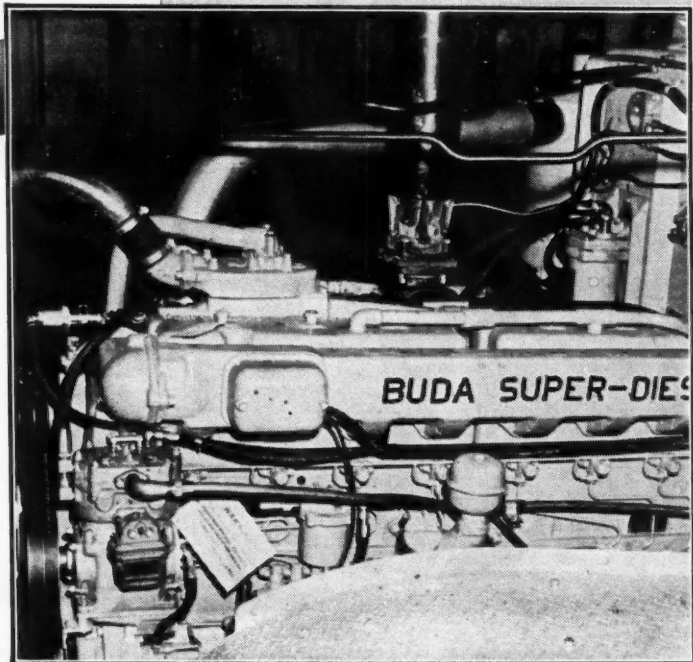
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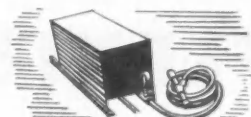
WASHERS, (Fountain Brushes & Mops)
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Fuller Brush Co., Industrial Div., 3651 Main St., Hartford 2, Conn. (Brushes)
Henry Mfg. Co., 421 5th Ave., S. Minneapolis, Minn. "Henico." (Brushes.)
Kansas City Fountain Brush Mfg. Co., 1230 Oak St., Kansas City, Mo. "K. C." (Brushes.)
Laitner Brush Co., 2000 Brooklyn Ave., Detroit 26, Mich. "Laco." (Brushes.)
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn. "Wash-Master." (Revolving brushes and injector for liquid detergent; "Soft-T-Wash" brushes).
Melaire Dist. Co., 420 Lexington Ave., N. Y. 17, N. Y. "Swirl - O - Matic." (Revolving brushes.)

Milwaukee Dustless Brush Co., 530 N. 22nd St., Milwaukee 3, Wis. "Speed-Wash."
Molded Specialties, Inc., 1333 E. 170th St., Cleveland, Ohio (Wash pads.)
Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa. "Fleet-Kleen." (Brushes.)
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Brushes; sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Tucker Mfg. Co., 305 First St., S. W., Cedar Rapids, Iowa. (Brushes.)

WASHERS, Metal Parts

Aerofil Products Co., Wesley St., South Hackensack, N. J. "Aerofil Heet-Master," "Aerofil Dipmaster."



Alvey-Ferguson Co., 75 Disney St., Oakley, Cincinnati 9, Ohio. "A-F."
Barrett Co., Leon J., 1477 Grafton St., Worcester, Mass. "Typhoon." (Centrifugal.)
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Blakeslee & Co., G. S., 1900 S. 52nd St., Cicero, Ill. "Niagara," "Blakeslee," "De-Greas-O."
Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.
Circo Products Div., Optimus Equipment Co., 24-36 Main St., Matawan, N. J.
Clayborne Mfg. Co., 3234 W. 31st St., Chicago 23, Ill.
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn. "Autosan."
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Despatch Oven Co., 619 Eighth St., S. E., Minneapolis 14, Minn.
Detrex Corp., Box 501, Detroit 32, Mich.
Detroit Sheet Metal Works, 1308 Oakman Blvd., Detroit, Mich.
Drying Systems, Inc., 1810 1/2 Foster Ave., Chicago 40, Ill. "Dry-Sys."
Eclipse Fuel Engineering Co., 711 S. Main St., Rockford, Ill. "McKee."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Gray-Mills Corp., 2006 Ridge Ave., Evanston, Ill.
Hanson-Van Winkle-Munning Co., Matawan, N. J.
International Conveyor & Washer Corp., 652 E. Port St., Detroit 26, Mich.
J. P. Mfg. Co., 330 E. Front St., Youngstown 3, Ohio
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus Aja-Dip," "Magnus Miji-Dip."
Mahon Co., R. C., 6565 E. 8-Mile Rd., Detroit 34, Mich. (Combined belt conveyerized washer and dryer.)
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich. "Uni-Wash."
Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. (Combined belt conveyerized washer and dryer.)
Phillips Mfg. Co., 3475 Touhy Ave., Chicago 45, Ill. "Phillips Torrent."
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer-Flo."
Protectoseal Co., 1920 W. Western Ave., Chicago 8, Ill. "Air-Matic."
Ransohoff, Inc., N., 16 E. 72nd St., Carthage, Cincinnati 16, Ohio.
Schmieg Industries, Inc., 308 Piquette St., Detroit 2, Mich.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Brake shoes and parts.)
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Galvanizing & Plating Equipment Corp., 27-41 Heyward St., Brooklyn, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."

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WASHERS, Steel (Advertisers only)

Whitehead Stamping Co., 1685 W. Lafayette Blvd., Detroit 16, Mich.

WASHERS, Vehicle

(Water, steam and compressed air)
Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. (Steam.)
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Chem-Therm Mfg. Co., Pasadena, Calif.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Clayton-Kerrick" (Steam)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. (Steam.)
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kielen Ave., St. Louis 20, Mo.
Demin Co., 884 S. Broadway, Salem, Ohio.
Detrex Corp., Box 501, Detroit 32, Mich. "Drex-Foamizer."
Friend Mfg. Co., East Ave., Gasport, N. Y.
General Equipment Div., Sterod Mfg. Co., 442 Frelinghuysen Ave., Newark 5, N. J.
Hardie Mfg. Co., Mechanic St., Hudson, Mich.

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WASHERS, Vehicle—continued

Henry Mfg. Co., 421 5th Ave., S., Minneapolis, Minn.
 Homestead Valve Mfg. Co. (Hypresure Jenny Div.), Narrows Run Rd., Coraopolis, Pa.
 "Hypresure Jenny." (Steam vapor spray.)
 Hydro-Air Cleaning Systems, Inc., 11921 Miles Ave., Cleveland 5, Ohio.
 Kelite Products, Inc., 130 E. Elmyra St., Los Angeles 12, Calif. "Kelite"
 Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
 Phillips Pump & Tank Co., 1432 State Ave., Cincinnati 4, Ohio.
 Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill. "Blackhall" van washer.
 Southwest Pump Co., First & Center Sts., Bonham, Tex.

Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
 W. S. Washmobile Corp., 350 N. Foothill Road, Beverly Hills, Calif.
 Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
 Whiting Corp., 157th & Lathrop Sts., Harvey, Ill. (Automatic)
 Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

WASHERS, Windshield (Vacuum Operated)

Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WAX, See Polish, Body

WEATHER STRIPS

Automotive Products Div., Crotly Corp., 39 E. Chicago Ave., Quincy, Mich. "Yankee-seal."
 Backstay Welt Co., Oak & Howard Sts., Union City, Ind. "Tricord."
 Bridgeport Fabrics, Inc., 805 Wood Ave., Bridgeport, Conn. "Inner Seal." (Door.)
 Brockton Stay Co., 24 Essex St., Haverhill, Mass.
 Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
 Carter Co., George R., 630 Lyncaste Ave., Detroit, Mich.
 Chardon Rubber Co., Chardon, Ohio.
 Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalie."
 Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
 Dryden Rubber Div., Sheller Mfg. Corp., 1014 S. Kildare Ave., Chicago 24, Ill.
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. (Windsnied, window, door and trunk.)
 G & G Products Co., Lindale Rd., Amelia, Ohio. (Also door and trunk.)
 General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
 Hamilton-Wade Co., 52 Haverhill St., Brockton 62, Mass.
 Hope Webbing Co., Providence, R. I.
 Industrial Rubber Goods Co., St. Joseph, Mich.
 Inland Mfg. Div., General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
 Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Kar-Seal," "Stix On."
 Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Holdfast."
 Kravex Mfg. Co., 273 Van Sinderen Ave., Brooklyn 7, N. Y. "K M." (Door and trunk.)
 Lange Machine Works, Henry G., 150 N. May St., Chicago 7, Ill.
 Midland Steel Products Co., 6663 Mt. Elliott Ave., Detroit 11, Mich.
 Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio.
 Rodie Rubber Corp., Allen Ave., New Brunswick, N. J.
 Schwartz Rubber Corp., 3708 Payne Ave., Cleveland 14, Ohio. "Fits-All" (Trunk)
 Sponge Rubber Products Co., 247 Derby Place, Shelton, Conn. "Spongex." (Door.)
 Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
 Union Welt Corp 2727 W. Roscoe St., Chicago 18, Ill. "Sealtite."
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Van Cleef Bros., Inc., 7800 So. Woodlawn Ave., Chicago 19, Ill. "Dutch Brand Rubber-Shim."
 Western Felt Works, 4029 Ogden Ave., Chicago 23, Ill.

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WEIGHTS, Wheel Balancing

Amplex Engrg. Co., 2510 Grand Ave., New Castle, Ind.
 Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
 Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
 Bee-Line Mfg. Co., P. O. Box 569, Davenport, Iowa.
 Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
 Mid-Western Auto Parts, 824 E. Elm St., Kokomo, Ind. "Snugl."
 Namsco, Inc., 1808 S. Michigan Ave., Chicago 16, Ill. "National"
 Perfect Equipment Corp., 804 W. Morgan St., Kokomo, Ind.
 Powell Mfg. Co., 813 Burlington Ave., Logansport, Ind. "Excel."
 Speedmaster, Ltd., 630 E. 10th St., Oakland 4, Calif.
 Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind. "Snugg-Tite," "D & T."
 Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
 Wheel Weights, Inc., 16883 Wyoming Ave., Detroit 21, Mich.
 Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

WELDERS and EQUIPMENT, Electric (Arc)

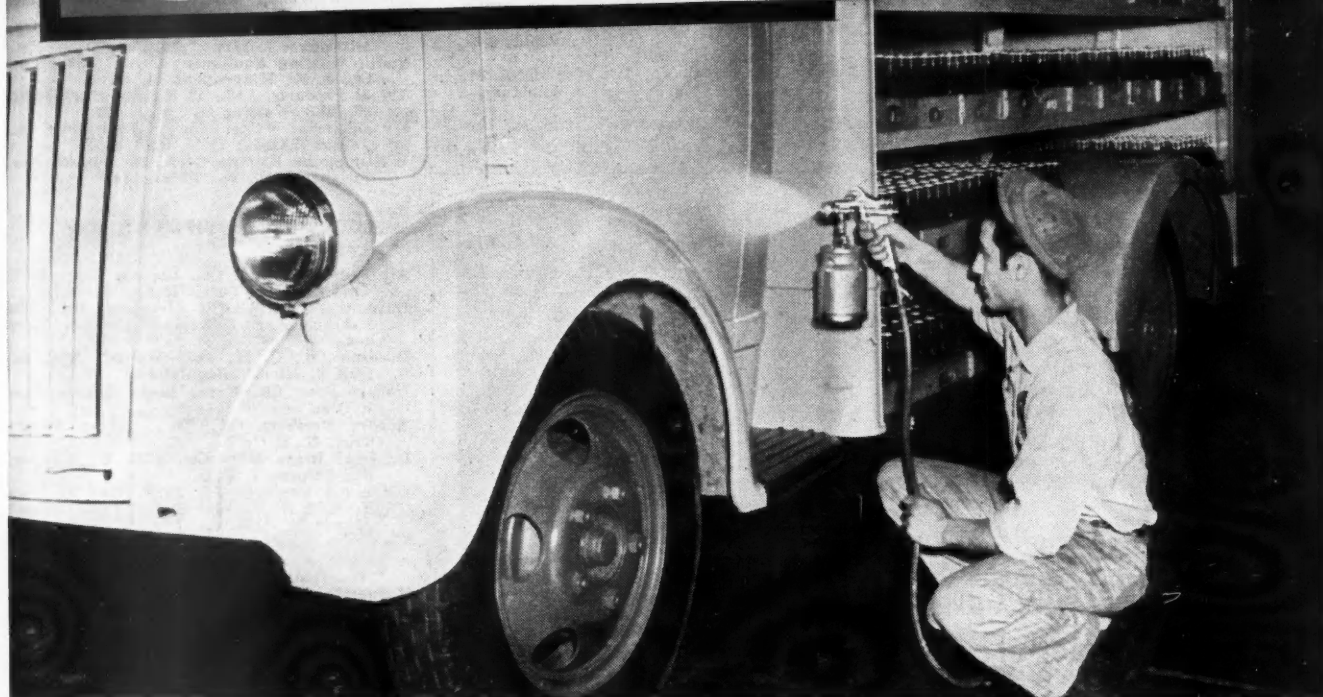
Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
 Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
 Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."

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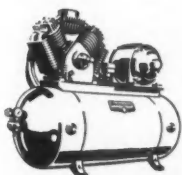
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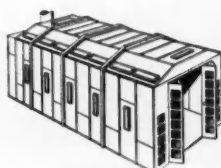
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WELDERS and EQUIPMENT, Electric (Arc)—continued

Born Mfg. Co., 23 N. Union St., Elgin, Ill. "Elgin."
 Bunell Machine & Tool Co., 1601 E. 23rd St., Cleveland 14, Ohio.
 Couse Mfg., Inc., 300 Passaic St., Newark 4, N. J.
 Delta Power Tool, Div. Rockwell Mfg. Co., 600 E. Vienna Ave., Milwaukee, Wis.
 Electric Arc Inc., 152 Jelliff Ave., Newark, N. J. "Alternarc," "Dualarc," "Electroweld," "Nu-Arc."
 Ergolyte Mfg. Co., 3627 N. Lawrence St., Philadelphia 40, Pa.
 General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y.
 Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.

Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo. (Portable.)
 Harnischfeger Corp., 4400 W. National Ave., Milwaukee 14, Wis. "P & H."
 Hobart Bros. Co., Hobart Square, Troy, Ohio.
 Kern Co., John A., 224 N. Loomis St., Chicago 7, Ill.
 Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
 Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland 17, Ohio. "Shield-Arc," "Fleet-welder," Manual; "Lincolnweld," "Electric Tornado." (Automatic.)
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
 Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
 Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y.

Mid-States Welder Mfg. Co., 6025 So. Ashland Ave., Chicago 36, Ill. "Mid-States Metal Zipper." (Also "Missing Link" stabilizers.)
 Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.
 National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "Sureweld."
 Nelson Stud Welding Div. of Morton Gregory Corp., Toledo Ave. & E. 28th St., Lorain, Ohio. "Nelweld." (Portable.)
 Precision Welder Mfg. Co., 660 Grand Ave., Chicago, Ill.
 Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
 Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
 Trindl Products, Ltd., 17 E. 23rd St., Chicago 16, Ill. (Welding.)
 US Electric Welder Corp., 1253 Dorr St., Toledo 7, Ohio.
 Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Flex-Arc."

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WELDERS and EQUIPMENT, Oxy-Acetylene

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York, N. Y. "Aircro."
 Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdex."
 Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich. (Regulators.)
 Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.
 Hobart Brothers Co., The, Hobart Square, Troy, N. Y.
 Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
 Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld," "Frest-O-Weld," "Purox."
 Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. "Gasweld."
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Portable acetylene generators.)
 Modern Engineering Co., 3411 Pine Blvd., St. Louis 8, Mo. "Meco."
 National Cylinder Gas Co., 840 N. Michigan Ave., Chicago, Ill. "Rego."
 National Cylinder Gas Co., Torchweld Equipment Div., 4700 W. 19th St., Chicago, Ill. "Torchweld."
 Sight Feed Generator Co., West Alexandria, Ohio. (Acetylene generators.)
 Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
 Tolman Mfg. Co., 19 W. Third St., (South Boston), Boston 27, Mass.
 Victor Equipment Co., 844 Folsom St., San Francisco 7, Calif.

WELDING CABLE, See Cable, Welding

WELDING COMPOUNDS, See Compounds, Welding

WELDING HOSE, See Hose, Welding

WELDING RODS, See Rods, Welding

WHEEL ALIGNMENT EQUIPMENT, See Gages, Wheel and Axle Aligning

WHEEL BALANCING MACHINES, See Balancers, Wheel

WHEELS, Fifth



American Steel Foundries, Automotive Div., 400 N. Michigan Ave., Chicago 11, Ill. "A.S.F."
 Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
 Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill. (Hydraulic)
 Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio. (Elevating.)
 Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton 1, Ohio.
 Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala.
 Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
 Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.

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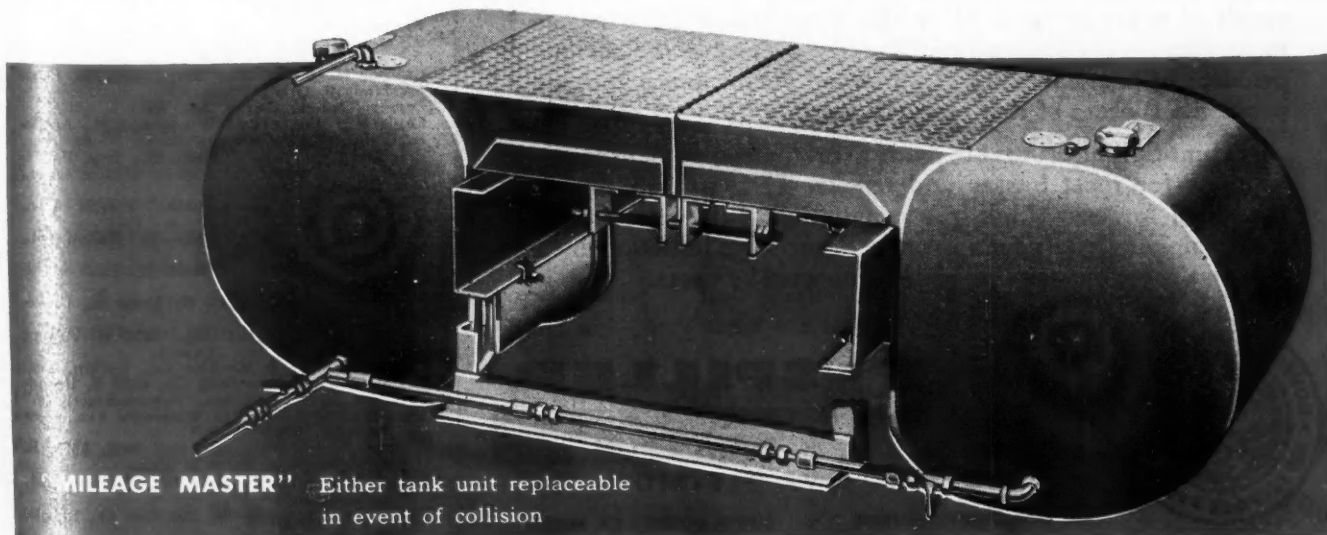


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WHEELS, Fifth—continued

Hodo & Vandegriff, Inc., Box 2127, Montgomery, Ala. (Fifth wheel No-tilt lock.)
Holland Hitch Co., 430 W. 18th St., Holland, Mich. "Apgar," "Holland."
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
Pollard Co., C. E., 14511 Schaefer Rd., Detroit 27, Mich. (Elevating)
Spencer-Safford Loadercraft, Inc., Augusta, Kan.
Weber Trailer & Mfg. Co., 1100 E. Fifth St., Los Angeles, Calif.

WHEELS, Grinding

Behr Manning Div., Norton Co., Troy, N. Y.
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.

WHEELS, Vehicle (Cast Metal)

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio. (Spoke types.)
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Erie Malleable Iron Co., Automotive Wheel Div., 609 W. 12th St., Erie, Pa.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Truck.)
Homan & Co., Inc., 920 State Ave., Cincinnati 15, Ohio.

WHEELS, Vehicle, Disc

Aluminum Company of America, Pittsburgh 19, Pa.
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Truck.)
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich. "Disteel."

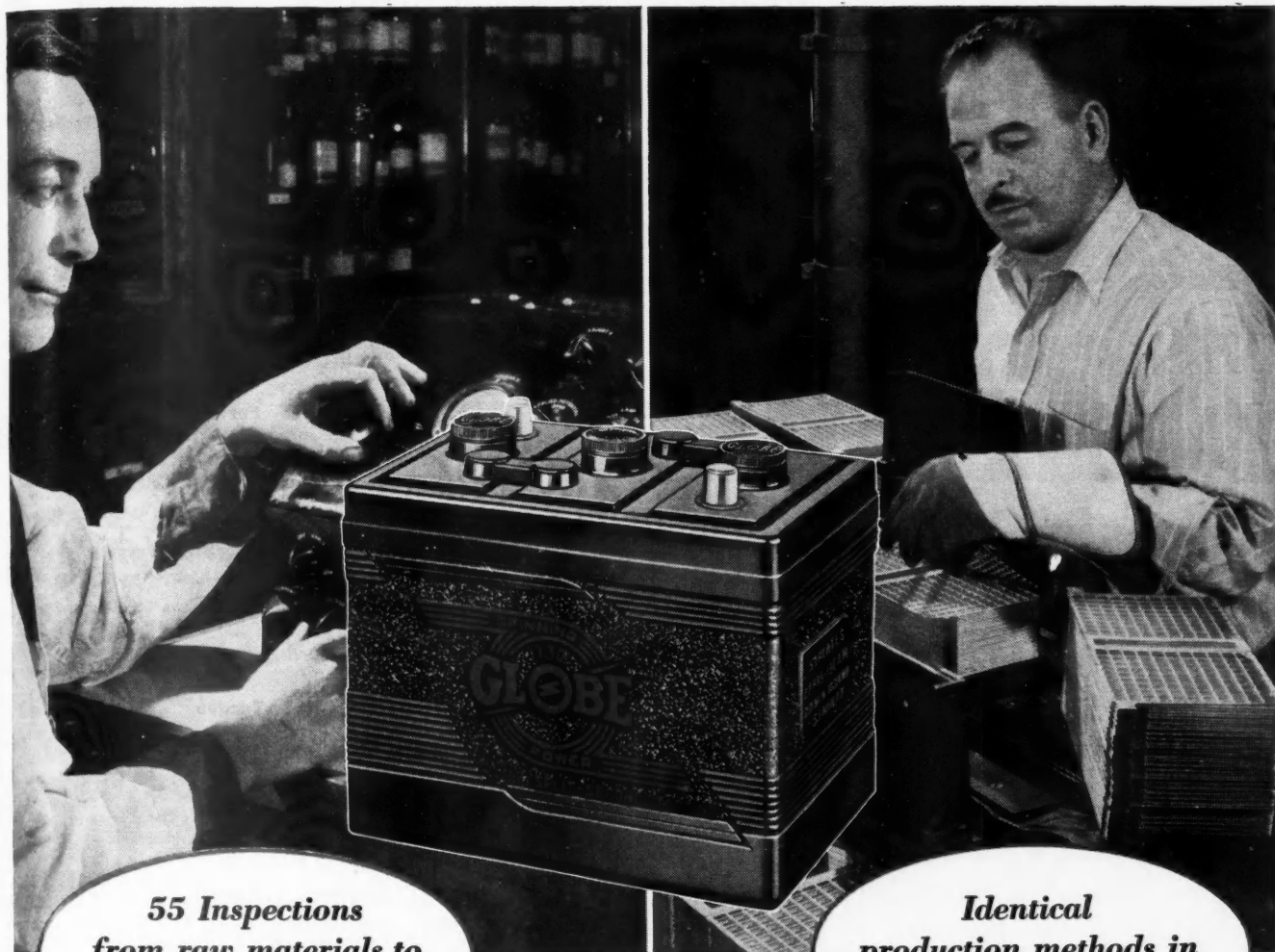
WHEELS, Trailer

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Clark Equipment Co., Buchanan, Mich. (Cast spoke.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Differential Wheel Corp., 5169 Martin Ave., Detroit 10, Mich. (Differential dual.)
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Single and dual pneumatic, malleable iron.)
French & Hecht, Div. Kelsey-Hayes Wheel Co., Third & Farnam St., Davenport, Iowa.
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Cast metal.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich. (Disc steel.)
Permold Co., 820 W. Liberty St., Medina, Ohio. (Aluminum.)

WINCHES, Truck

Adams Engineering Co., 1969 E. 119th St., Cleveland 6, Ohio.
American Hoist & Derrick Co., 63 S. Robert St., St. Paul 1, Minn.
Beebe Bros., 2724 Sixth Ave., S., Seattle 4, Wash. (Hand.)
Braden Winch Co., Box 1709, Tulsa 1, Okla.
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
Cascade Mfg. Co., 2439 N. W. 29th St., Portland 10, Ore. "Ramsey."
Dorsey Trailers, Inc., Elba, Ala.
Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. "Gray" ar.
Erie Hoist Co., 2000 Holland St., Erie, Pa.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hand.)
Lufkin Foundry & Machine Co., Lufkin, Tex.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers-American."
Melli-Blumberg Co., 1615 Wisconsin Ave., New Holstein, Wis. "M-B."
Ramsey Winch Mfg. Co., Box 3035, 5581 E. Admiral Place, Tulsa 3, Okla.
Round & Son, David, Box 883, Cleveland 22, Ohio. (Hand)
Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.

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WINCHES, Truck—continued

Six Wheels, Inc., 1584 E. 20th St., Los Angeles 11, Calif. "Maxi"
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, L. I., N. Y.
Truck Engineering Co., 1285 W. 70th St., Cleveland 2, Ohio.
Tulsa Winch Div. of Vickers, Inc., 823 E. First St., Tulsa, Okla.

WIPERS, Windshield (Air)

Marquette Metal Products Co., 1145 Galewood Drive, Cleveland 10, Ohio.
Sprague Devices, Inc., Huron St., Michigan City, Ind. "Air Push."
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (For trucks and buses.)

WIPERS, Windshield (Electric)

American Bosch Corp., 3664 Main St., Springfield 7, Mass. "American Bosch Never-stall."
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y.
Electric Auto-Lite Co., Lamp Div., Lockland, Ohio.
Electric Auto-Lite Co., Owen-Dyneto Div., 1930 Park St., Syracuse, N. Y.
Electric Service Mfg. Co., 17th & Cambria St., Philadelphia 32, Pa. (For bus and trolley.)
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
Storm-King Products Co., 148-08 95th Ave., Jamaica 4, N. Y.

WIPERS, Windshield (Vacuum)

Anderson Co., Gary, Ind.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WIRE, IGNITION, STARTING AND LIGHTING. See Cable, Ignition, Starting and Lighting

WRECKERS, See Cranes, Service Truck

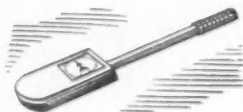
WRENCHES, Portable Electric

Black & Decker Mfg. Co., Towson 4, Md.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y. "Universal"
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor"
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Millers Falls Co., Greenfield, Mass.
Van Dorn Electric Tools, Towson 4, Md.

WRENCHES, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Master Pneumatic Tool Co., 149 Peniman Rd., Orwell, Ohio. "Master Power."

WRENCHES, Torque



Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Airdraulics Engineering Co., Burtis Ave., New Canaan, Conn. "Trutorq."
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Apeo Mossberg Co., Lamb St., Attleboro, Mass. "Mossberg."
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Blackhawk Torq-flash."
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
C. & G. Wheel Puller Co., Scio, N. Y. (Preset.)
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand."
J O Mfg. Co., 8442 Otis St., South Gate, Cal. "Joel," "Joex," "Jomi," "Jote."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
New Britain Machine Co., South St., New Britain, Conn. "New Britain" and "None Better."
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.
Richmont, Inc., 2810 E. 11th St., Los Angeles 23, Calif. "Livermont Torq-Stop."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Sturtevant Co., P. A., Addison, Ill.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Measurrench."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

WRIST PINS, See Pins, Piston

THE BIEDERMAN TRUCK



**An All-Star Truck
Constructed of All-Star Units
Doing an All-Star Job Since 1920**

DEALERS: Compare the Biederman National Standard Model with any truck on the market and you will agree that it is an All-Star team in itself.

Only the most sturdily constructed units of America's leading manufacturers are built into it.

Biederman Trucks win by performance. Inquiries regarding dealership solicited.

WRITE, WIRE or PHONE

**BIEDERMAN MOTORS CORPORATION
CINCINNATI 14, OHIO**

Late Listings

The following entries in the **COMMERCIAL CAR JOURNAL's Annual Buyer's Directory** were received just prior to press time and have been entered here. For further information about the products under each classification, refer to a similar heading in the directory proper.

BODIES, Commercial

Brightbill, M. A., Lebanon, Penna.
Buckeye Truck Body Builders, 338 N. Champion Ave., Columbus, Ohio.
Cato Trailer Service Co., Greenville, S. C. (truck and trailer.)
Commercial Auto Body Works, 2038 Washington Ave., Philadelphia, Pa.
Cresci, A., & Son, Vineland, N. J.
Cronin Bros., 28 Johns St., Nassau, N. Y.
DeHart, H. A. & Son, Thorofare, N. J.
Eastern Body Co., 2249 N. 31st St., Philadelphia, Pa.
Finn Auto Body Co., 15 W. Charlton St. Cincinnati, Ohio.
Harrisburg Truck Body Co., Harrisburg, Pa.
Mid West Body Co., Paris, Ill.
Moyssville Body Works, 813 S. Reading Ave., Boyertown, Pa.
Nash Bros. Co., 2125 Dewey Ave., Evanston, Ill.
South Texas Truck Equipment Co., 6 N. Latham St., Houston, Texas.
Swartley Commercial Body, Inc., 18th & Lehigh Ave., Philadelphia, Pa.

COMPOUNDS, Windshield Sealing

Behr-Manning Div., Norton Co., Troy, N. Y.

DOORS, Truck (Steel)

Kirk & Blum Mfg. Co., 2901 Indiana Ave., Chicago, Ill.

GLASS, Safety

American Window Glass Co., 1600 Farmers' Bank Bldg., Pittsburgh 22, Pa.

GRINDERS, Drill

Delta Power Tool Div., Rockwell Mfg. Co., 600 E. Vienna Ave., Milwaukee, Wis.

HEATERS, Bus

Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.
Evans Products Co., Heating and Ventilating Div., Plymouth, Mich.

Quick Thinkin'

It was a beautiful summer Sunday and the president of Fleety Fleet Motor Express was entertaining his Superintendent of Maintenance. After partaking of a delicious dinner, the fleet operator suggested that they take their wives for a drive in his new imported eight cylinder sports phaeton. Spinning along at 80 miles an hour they approached a railroad crossing and before they knew it they collided with a train. Both men were injured and their wives shaken up a bit. Each sued the railroad separately for damages. The fleet operator was awarded \$10,000 damages and his Maintenance Superintendent \$12,000. After all had recovered, they got together to celebrate their being alive.

"By the way," said the trucker, "how is it that you got two thousand more than I did for that smash-up?"

"It came out that way because I was a little slicker than you at the time of the accident," calmly replied the maintenance man.

"How do you figure that?" queried the fleet operator.

"Because in the first few seconds of turmoil just after the train struck our car, I was smart enough to kick my wife in the face!"

HEATERS, Cargo

Evans Products Co., Heating and Ventilating Div., Plymouth, Mich.
Luminator, Inc., 120 N. Peoria St., Chicago 80, Ill.

HEATERS, Truck Cab

Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.

JOCKEY, TRAILER, See Wheels, Fifth

MIRRORS, Rear View

Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.

NUTS, Lock

Kaynar Mfg. Co., Inc., Los Angeles, Calif. (Self locking.)

OILS AND LUBRICANTS (Engine and Chassis)

Phillips Petroleum Co., Bartlettville, Okla.

PARTS, Body (Pre-shaped)

O. M. Edwards Co., Inc., Syracuse 4, N. Y. (Insulated windows.)
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio. (Fender & brackets.)
Miner, W. H., Inc., Rookery Bldg., Chicago, Ill. (Door hinges.)
Youngstown Steel Car Corp., Niles, Ohio (Die-pressed channels, misc. presswork.) "Yocar."

PARTS, Brake

Orschelin Brake Levers Mfg. Co., 335 N. Williams St., Moberly, Mo.

PARTS, Ignition

Standard Metal Products Co., Norwalk, Conn.

SAWS, Band

Delta Power Tool Div., Rockwell Mfg. Co., 600 E. Vienna Ave., Milwaukee, Wis.

THE *Anthes* LINE

No. 1270-S

Mirror rides completely in rubber. Glass can easily be replaced. Waterproof

Finest, clear mirror glass, sees everything. No shimmy—no blur. 4x8 inch size.

New, improved heavy steel bracket for hinge or body mount.

Anthes patented strut, raises or lowers, swivels on ball and socket—fits all conditions.

Write today for your copy of the new Anthes catalog. Detailed descriptions of mirrors and all other Anthes Highway Safety Equipment.

LIGHTS

REFLECTORS

FLAGS FUSES

FOG FLAP

EXTINGUISHERS

TRUCK FLAP

MIRRORS

ANTHES FORCE OILER CO.

FORT MADISON, IOWA

Anthes

THE FIRST LINE OF SAFETY

... and proud to serve the safest drivers on the road!

Washington Runaround

Continued from Page 37

Truck Parts Adequate

There will be no shortage of replacement parts for trucks and automobiles in the foreseeable future, in the opinion of National Production Authority officials. They believe that the current rate of allocations of controlled materials is sufficient to take care of the needs of both passenger cars and trucks.

Industry officials, however, have warned control officials that the picture may suddenly turn for the worse and be somewhat different in the early months next year. Out of the approximately 8,400,000 trucks now registered about 2,800,000 vehicles are 10 years old or more. Inability to place orders with the mills for controlled materials during the first quarter, due

to changing over to the Controlled Materials Plan, may bring a change by the first quarter.

Truckers Get The Squeeze

Highway freight costs are going up faster than operating revenues, the American Trucking Association reports. An ATA survey of the second quarter puts operating expenses 18.3 per cent above those of the same period in 1950. At the same time, operating revenue increased only 15.6 per cent.

An exception was found in the local cartage segment of the industry. There, said ATA's report, operating revenue increased slightly more (.3 of 1 per cent) than operating costs.

A separate survey, but one that is a definite factor in rising operating costs, showed that most of the labor agreements negotiated during the comparable quarter ranged from 10 to 15 cts an hour. About 3 per cent of all agreements studied by ATA showed increases of 16 cts an hour or more.

Rails Getting the Mails

With the short-haul mail-by-truck apparently here to stay, the indications are that the railroad trucking subsidiaries are getting set to give independent operators a run for their money. At any rate, trucking firms associated with the railroads are now making successful bids for the business at rates considerably below those submitted by the independents.

Railroads were seeking mail rate increases when the trucking experiment began last February. Post Office officials say that the railroads were then cool to suggestions that they enter trucking bids. But, the project has been successful and will be expanded. The White House recently gave the Post Office the green light after being told that savings of close to \$700,000 were already in sight.

In the meantime, the rail subsidiaries had been quietly picking up a contract here and there. More recently, they were successful bidders for five out of eight contracts awarded for the Columbus, Ohio, area. Their bids were reported at no higher than 22 cts a mile against independent of not less than 30 cts.

END

Please Resume Reading Page 37

One o' th' Boys

STENO LOU: "A FRESH GUY TRIED TO PICK ME UP ON THE STREET YESTERDAY."

STENO SUE: "I SUPPOSE YOU TOLD HIM WHERE TO HEAD IN?"

STENO LOU: "OH, SURE. AND BOY, OH BOY, WHAT AN APARTMENT HE'S GOT."

NEW
HEAVY DUTY

AEROL LIFT

HANDLES HEAVIEST WORK FASTER AND EASIER

You can do *more* under-chassis jobs—and do them *easier, quicker and safer*—with the new **HEAVY DUTY AEROL LIFT**, Model 151B.

Designed to handle the heavier truck units now in common use, the **HEAVY DUTY AEROL LIFT** is equally adaptable to lighter work. It rolls under any chassis, has adjustable cradle, easy movement, one-man operation—in fact, all of the features that have established the regular sturdy **AEROL LIFTS**, Models 15A and 15B, as the most versatile unit lifts in the industry.

All **AEROLS** raise work to bench height (37"), hold it securely even in tilt positions. Hydraulic jack removable for emergency use. Write for information today.



**REMOVE
POSITION
INSTALL**

TRANSMISSIONS UNIVERSAL JOINTS
GAS TANKS DIFFERENTIALS
CRANKCASES SPRINGS
DRIVE LINES
AXLES
MOTORS

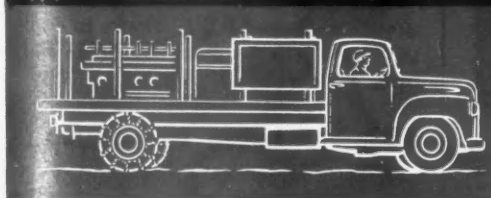
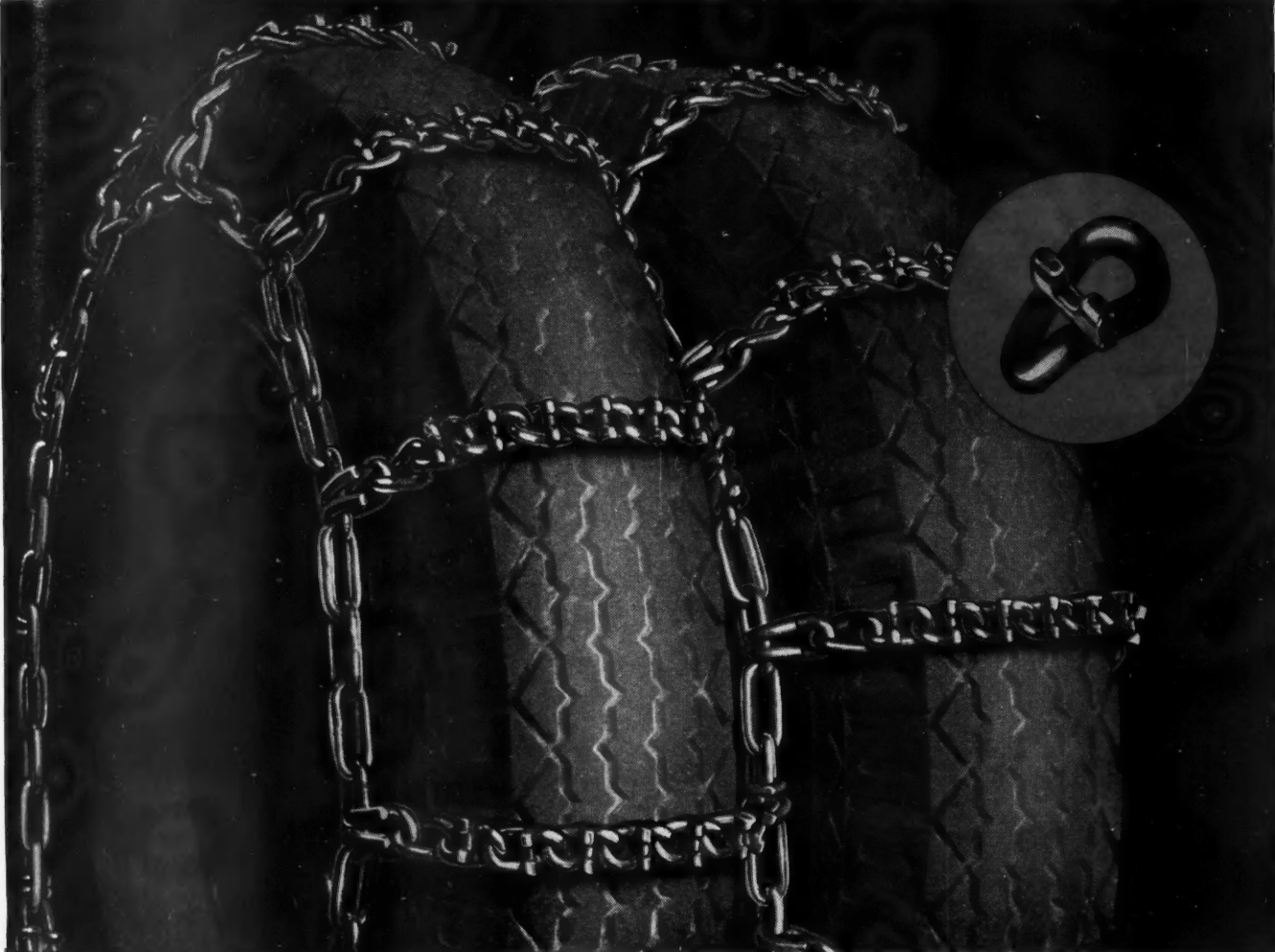


THE CLEVELAND PNEUMATIC TOOL CO.
Automotive Division
3769 E. 77th Street
Cleveland 5, Ohio

Please send me information on **AEROL LIFT**:
☐ **HEAVY DUTY**, Model 151B
☐ **STANDARD**, Models 15A and 15B

Name
Address

CAMPBELL *Lug-Reinforced* TIRE CHAINS



**...for maximum safety...
minimum operating cost**

CAMPBELL TRUCK AND BUS CHAINS ARE EASY TO IDENTIFY!



**Mud Service
Single Pneumatic**

**Highway Service
Dual Pneumatic**

**Lug-Reinforced
Dual-Triple**

**Lug-Reinforced
Interchangeable
Cross Chains**

Only Campbell Chains have the patented *Lug-Reinforced* construction that means greater traction on ice and snow . . . greater traction that provides maximum protection against skids and side-slips.

What's more, the extra metal in the lugs means that Campbell Chains wear longer and cut link-breakage to a minimum . . . mean lowest operating cost per mile on icy or snow-covered roads.

CAMPBELL CHAIN *Company*

Main Office—York, Pa.

Factories—York, Pa., and West Burlington, Iowa

Campbell color-coded bags save time in handling chains and make chain storage much easier. Available in three grades for all cars, trucks and buses: *Lug-Reinforced* for greatest traction and longest wear; *Highway Service* for regular use; *Mud Service* for off-the-road duty.

Campbell *Lug-Reinforced* Tire Chains for fleet passenger car service are packed in sturdy boxes, and every box includes the easy-to-use Chain Applier.

Make sure you have a set of Campbell Tire Chains for every unit in your fleet!

New Product Descriptions

Continued from Page 56

P81. Line Filter

Compressed air systems which may contain damaging moisture can be drained automatically by an application made by Air Line Engineering Co., Cleveland, Ohio. The device acts as a filter and condenser.

It has a steel outer shell, 6 in. in diameter and 36 in. long. A steel inner cartridge 5 in. by 24 in. is loosely packed in Fiberglas. A cast aluminum head with inlet and outlet openings is bolted to a flange welded to the outer shell.

Air enters the inlet opening and

passes down between the inner and outer shells. Expansion of the air and the cooling surface cause moisture in the air to condense and fall to the bottom of the outer shell where it is discharged through the drain valve. The air then passes through the Fiberglas in the inner cartridge which baffles out any remaining moisture.

P82. Brake Shoes

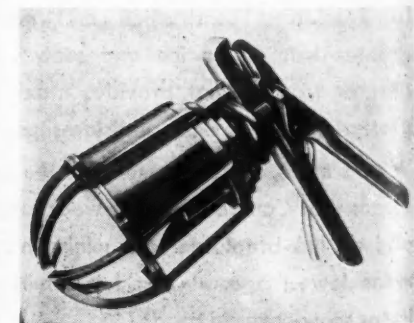
A solution to many brake problems is claimed for this new fight-friction "green block" shoe developed by World Bestos, New Castle, Ind. The "green block" in the "U" combination is said to stop squeal, eliminate fade, heat checking of drums, keep the brakes cooler-running and lengthen the maintenance periods between relines.



The "green block" is a secret formula shoe that is used in combination with the D block sets. One set consists of 2 green blocks and 6 "D" blocks to equip one axle. The sets are available only in 3/4 in. thickness.

P83. Portable Handlamps

A trouble light with a gripper attachment has been introduced by P.M. Sales Co., Newark, N. J. It is conven-



ient for use where the light source must remain close to the work while the operator has both hands free. The gripper attachment may be clamped to any object.

(TURN TO PAGE 300, PLEASE)

Garrison HYDRAULIC STEERING BOOSTERS

Provide...

1

**FASTER
PERFORMANCE
ON SHORTER
TURNS**

2

**INCREASES
MAN HOUR
EFFICIENCY**

3

**REDUCES
ACCIDENTS
AND
DRIVER FATIGUE**

4

**INCREASES
MAN HOUR
EFFICIENCY**

Increased efficiency in both operator and equipment performance makes Garrison Hydraulic Steering Boosters a profitable investment. Recognized by Safety Departments of "Off-The-Highway" operations for the protection of operators. Garrison Steering Boosters reduce accidents caused by "wheel fight" and assure greater steering control in emergencies.

One installation will prove to you and your operator the efficiency gained by Garrison Hydraulic Steering Boosters. Installations can be made on most heavy duty trucks, wheel tractors, truck cranes, graders.

WRITE FOR INFORMATION TODAY

Garrison MANUFACTURING CO.

1506 SANTA FE AVE., LOS ANGELES 21, CALIF.

KELSEY-HAYES

Advanced Design

3 pc. Truck Wheel

... ARE SAFEST and
EASIEST TO SERVICE

Kelsey-Hayes 3 piece, wide-base truck wheels have the exclusive **KH** locking device recognized by truck manufacturers and service men everywhere as the safest ever devised! The more the tire exerts pressure, the tighter the retaining ring locks the side flange to the base rim. Yet tire mounting, demounting, and tube servicing is simple!

"HEY GEORGE!
WHAT IF THAT RIM
LOCKING-RING
LET'S LOOSE AT YOU?"

"YOU DON'T HAVE
TO BE AFRAID OF
THESE KELSEY-HAYES
RIMS, BILL! THEY'RE
THE SAFEST!"

Available in all popular sizes for leading makes of trucks.



PROVEN PRODUCTS AT
KELSEY-HAYES WHEEL COMPANY

DETROIT 32, MICHIGAN

PRODUCTS: Wheels—Hub and Drum Assemblies—Brakes—Vacuum Brake Power Units—for Passenger Cars, Trucks, Buses—Electric Brakes for House Trailers and Light Commercial Trailers—Wheels, Hubs, Axles, Parts for Farm Implements.

PLANTS: Kelsey-Hayes Plants in Michigan (4), McKeesport, Pa., Los Angeles, Calif., Davenport, Iowa, Windsor, Ontario, Canada.



New Products

Continued from Page 298

P84. Welding Electrode

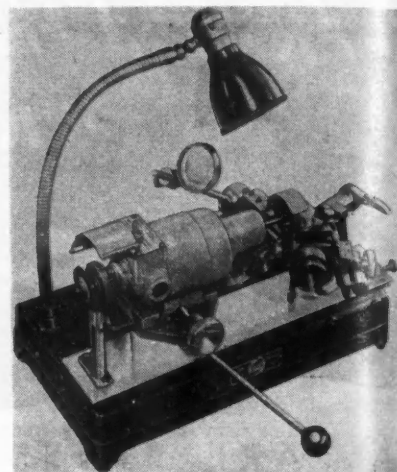
An electrode for cast iron welding, "EutecTrode 26", claimed by the manufacturer to be an improvement over conventional ferrous electrodes, has been announced by Eutectic Welding Alloys Corporation, Flushing, New York. The analysis of the metal deposited by new EutecTrode 26 will

show a uniform amount of carbon so that the deposited material is similar to a high tensile, high carbon steel, thereby increasing the tensile strength of the weld, it is reported.

P85. Drill Grinder

A new drill grinder for 2-lip twist drills from no. 70 to $\frac{1}{4}$ in. with either straight or tapered shank is announced by the Dumore Co., Racine, Wisc. The new tool offers the small drill user various economies in increased hole production, lower drill costs, reduction in

scrap loss and improvement of hole finish and tolerance, the manufacturer states.



The grinder is powered by a $\frac{1}{5}$ hp 115 v motor. The grinder swings a 2 in. x $\frac{3}{8}$ in. x $\frac{1}{4}$ in. wheel for sharpening. An identical wheel is mounted on the other end of the motor armature shaft for rough grinding of broken drills. A thinner wheel for web thinning is also on the shaft. Standard equipment includes a $\frac{1}{4}$ in. Collet; a chuck extension drill holder, a diamond wheel dresser and a set-up gage.

P86. Pressure Extinguisher

A fire extinguisher that uses air pressure from a standard tire fitting has been introduced by American-LaFrance-Foamite Corp. It is a 1-qt size extinguisher which discharges a vapor of extinguishing fluid and may be used for flaming liquid and electrical type fires.



It aims and operates like a gun, with a trigger action. It requires no pumping, and may be operated in one hand. This extinguisher may be recharged by filling to a mark with fluid, charging it at any air outlet, and placing the seal over the trigger mechanism to protect it from accidental discharge.

P87. Lubricator

The new heavy-duty top cylinder lubricator designed by Automotive and (TURN TO PAGE 302, PLEASE)

Koiled Kords for TRACTOR-TRAILER ELECTRICAL CONNECTIONS

Autac Kords - - -

Will Not Kink, Catch or Tangle.
Will eliminate costly delays and broken wires.
Will wear longer because of Neoprene jacketing.
Will pay for themselves in savings on materials labor and DOWNTIME.

Autac Is Interested In The Truckers' Wiring Problems

The components of Koiled Kords are difficult to get. Copper, Hemp, Rubber and Neoprene — but in spite of this, we at AUTAC are doing our best to supply the demand, though there may be slight delays in delivery on occasion. We know your problems, and are trying to supply:

4 CONDUCTOR KORDS
6 CONDUCTOR KORDS

AND NOW, THE NEW ATA RECOMMENDED
7 CONDUCTOR KORDS

After much exhaustive and costly laboratory work, we have been able to produce a 7 Conductor Kord, with the same OD as the 6 Conductor Kord. This means that you can gradually change the wiring of your fleet, and once this has been accomplished, change from 6 Conductor plugs to 7 Conductor plugs overnight. We shall in the meantime, try to supply 7 Conductor Autac Kords as fast as possible.

USE THE COUPON **NOW** ORDERING YOUR SUPPLY

AUTAC, INC., P. O. BOX #1071, NEW HAVEN, CONNECTICUT

Please send me COD, the following Koiled Kords:

() #8094-2 4 Conductor Kords () #8026-2 6 Conductor Kords
() #8027-1 7 Conductor Kords

Name

Street

City State

Per:

KATHANODE multi-power BATTERIES

- Multiple plate construction
- Life Guard Insulation
- Hydro-set Oxide
- Genuine Hard Rubber Containers



ASK YOUR JOBBER ABOUT
THE GOULD-NATIONAL BATTERY
LIFE INSURANCE PLAN

THE **KATHANODE** CORP.

a subsidiary of GOULD-NATIONAL Batteries, Inc.
SAINT PAUL 1, MINNESOTA

FACTORIES: Atlanta • Chicago • Dallas • Leavenworth • Los Angeles • Lynchburg • Marlboro
Memphis • North Bergen • St. Paul • West Salem • Zanesville • Depew* • Trenton*

*Industrial Factories

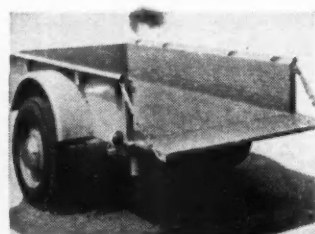
UNIVERSITY OF MICHIGAN LIBRARIES



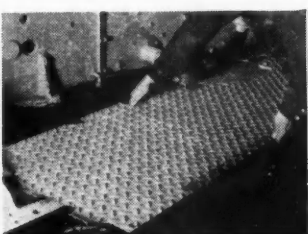
"Don't worry, my dear. The trays here are all made of slip-resistant 4-WAY Safety-Plate."

For greater safety under foot,
in your plant and on your products

Inland 4-Way Safety Plate®



Adds Strength



Easy to Fabricate



Safe Footing



Easy to Clean



INLAND STEEL COMPANY, Dept. CC-111
38 So. Dearborn St., Chicago 3, Ill.
Sales Offices: Chicago, Davenport, Detroit,
Indianapolis, Kansas City, Milwaukee, New
York, St. Louis and St. Paul.

New Bulletin with New
Ideas—Just Out! Bulletin
Fl. Complete engineering
and application data.
Send for it!

STOCKED BY LEADING STEEL WAREHOUSES

New Products

Continued from Page 300

Marine Products Corp., Boston, Mass., is said to reduce valve and piston ring failures by providing for auxiliary lubrication in the combustion chamber. Cleansing additives in the lubricant vapor help to control engine deposits and keep down combustion by-products which block the normal channels of lubrication. By providing for an effective oil seal between ring and cylinder wall the added lubrication is claimed to improve power and reduce octane requirements. Crankcase contamination, for this reason, is reduced and wear in the top cylinder area is cut down.



The Ampco unit operates through the entire range of vacuum in the intake manifold, and during the full period of engine operation at idling or propelling speeds. An adjustable flow of vaporized lubricant is directed by an injector plate or nozzle inserted between carburetor and intake manifold. The injector plate connects by copper tubing with the lubricator which is attached to the firewall or other suitable location. The oil reservoir has a one-quart capacity sufficient for 1200 to 1500 miles of operation.

P88. Hand Drill

A light hand drill made by Black & Decker Mfg. Co., Towson, Md., has been redesigned and improved. The drill is in an aluminum housing which gives it a total weight of 3¼ lb.

It is an end-handle unit available in a standard speed model of 1700 rpm and a low speed model of 600 rpm without load. Optional speeds ranging from 1000 rpm in the slow speed model to 5000 rpm in the high. The drill is powered by a B & D universal motor which is available for 115 v or 220 v lines.

(TURN TO PAGE 304, PLEASE)

"On Call"—Hansen for 24-Hour Service



Gerstenslager Puts Hansen Hardware "On Call" with Galena Fire Department

READY for instant, continual service, this Galena Fire Department (Illinois) emergency squad unit was built by The Gerstenslager Co., Wooster, Ohio, noted builders of custom van and standard stake bodies, as well as bodies of special design.

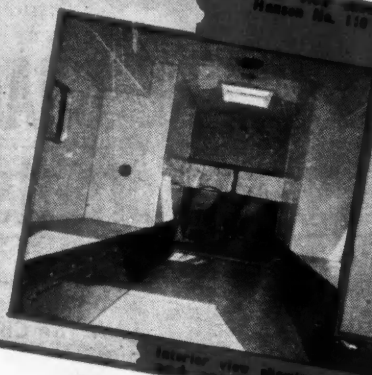
Long users of Hansen Hardware, Gerstenslager equipped this unit with Hansen Locks—Hansen No. 55 Lock on left compartment doors—Hansen No. 110 with No. 120 bolts on right compartment door and rear doors—and No. 46 on tool boxes.

Ruggedly built to withstand severe commercial body use, Hansen Hardware is simple in design, easy to apply, and often outlasts the body on which used. Be sure the bodies you design, build or use are Hansen-equipped. **WRITE FOR CATALOG.**

A. L. HANSEN MFG. CO.
5047 Ravenswood Ave.
CHICAGO 40, ILL.



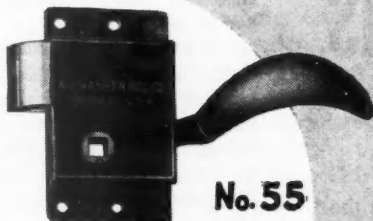
Top view showing interior compartments and Hansen No. 110 Lock with diamond-take-up bolts.



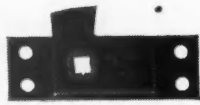
Interior view showing door lock and diamond-take-up bolts.



Interior view facing rear with double doors closed.



No. 55



No. 46

No. 110



Left side showing doors fitted with Hansen Locks.

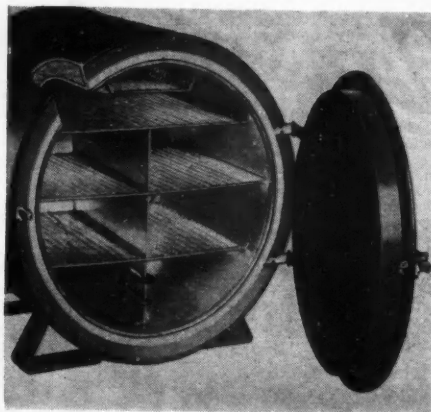
ASK for CATALOG

New Products

Continued from Page 302

P89. Electrode Oven

Full protection against moisture absorption is promised users of mineral-coated welding electrodes by the Philip Roden Co., Milwaukee, Wis., manufacturers of the newly announced "Dry-Rod" electrode oven. The oven is a portable, heated storage unit which provides control over the moisture content and temperature of electrodes at their point of use and makes possible a system of orderly electrode control.



The oven is heated by an 840-watt element operating from either 110 v or 220 v lines. It is insulated, has a low heat loss, contains a variable thermostat and will maintain temperatures up to 600 deg F. It is 22 in. wide, 25½ in. long, and will hold 350 lb of 18 in. electrodes.

END

Please Resume Reading Page 60

Late Product Flashes

"MIRASHAM" a woven fabric treated with latex, for various washing jobs looks and feels like chamois, is lint-free, and is not affected by soaps, detergent, gasoline, etc., according to the manufacturer, Betterby Inc., New York.

REFLECTOR FLARES are being made by R. E. Dietz Co. in kits. They conform to ICC regulations, have plastic lenses mounted front and rear, and grip into the ground with sharp edged legs to prevent tipping.

BATTERY FILLER for close, under-hood work has been introduced by E. Edelmann & Co., Chicago.

AIR HOSE CONNECTOR, automatic, with a ball-latch arrangement has been added to the air accessory line of DeVilbiss Co., Chicago. Air hoses may now be connected or disconnected by a slight push on the connector sleeve.

LEATHER RESTORER called "Ramcote" which may be used for canvas and leatherette as well is applied with brush like paint and dries in about 20 minutes. Ramcote Products Co., Chicago is the manufacturer.

RATCHET SCREWDRIVER with a detachable palm grip ratchet is among the new tools announced recently by Kipton Industries, Norwalk, Conn. The palm grip attachment is through a ¾ in. square drive joint. The screw driver itself comes in regular, philips, and clutch head blades in a wide variety of sizes.

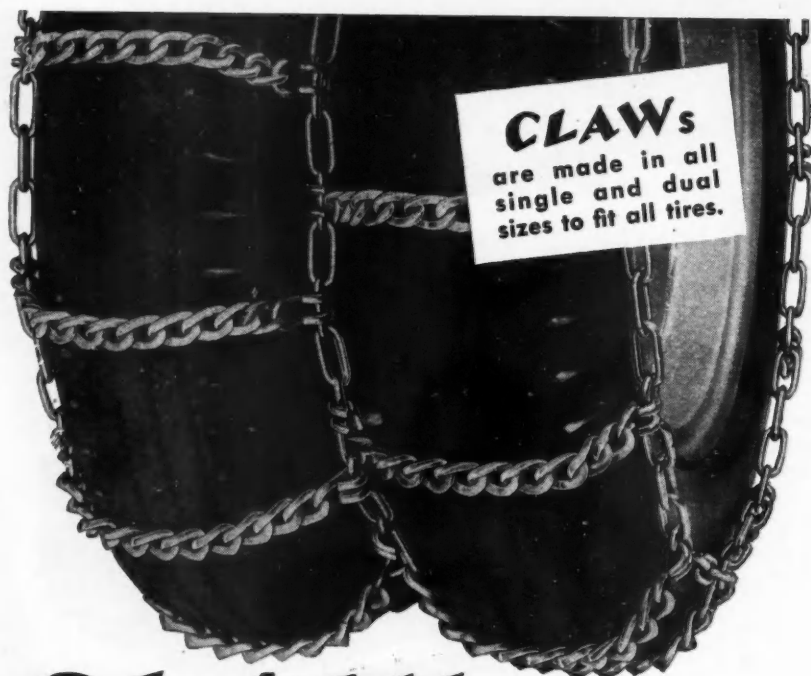
SPLASH GUARDS made by Franklin Industries, Acton, Ind., are all metal, assembled like the siding boards on a house, with open spaces between the sections to provide air passages. The air is expelled through the louvered openings but the solid matter thrown off by the tires is blocked.

COIL SPRING BOOSTER for passenger cars subject to heavier-than-standard loads provides for individual adjustment, improves riding qualities under load, and prolongs the life of standard coil springs according to the manufacturer, BeeLine Co., Davenport, Iowa.

TOP OIL for lubrication of the upper cylinder area of gasoline and LP gas engines has been marketed by Universal Lubricating Systems Inc., Oakmont, Pa.

PELLETS which melt ice and snow, with many times the thawing capacity of rock salt have been introduced by Chem Industrial Co., Cleveland, Ohio.

ANTI-RUST PAINT called "Rust Cure" can be applied right over the rusted spots without scraping according to the manufacturer, The Monroe Co., Cleveland, Ohio.



CLAW TIRE CHAINS

can add to profits



Compare the cost of CLAW Tire Chains against the cost of trucks running late, missing trips, skidding accidents, angry customers. CLAW Tire Chains, as safe, sure traction insurance, certainly can add to profits by maintaining operating efficiency...reducing winter weather operating costs.

We suggest that you provide now for each tractor, truck and car in your fleet. CLAW Tire Chains can be "worth their weight in gold" when winter weather takes over on the highways.

COLUMBUS McKINNON

CHAIN CORPORATION

General Offices and Factories: TONAWANDA, NEW YORK

Plants at Angola, N. Y.; Dixon, Ill.; St. Catharines, Ont., Can.; Johannesburg, So. Africa

Designed especially
for heavy duty

MULTI-STOP

service



GRIZZLY "SILVERTIP"

As you know, continual stops and starts make extra heavy demands on the brake lining of trucks, cabs, and similar vehicles. To meet these severe multi-stop requirements, Grizzly has developed a new semi-rigid type of lining—Grizzly "SILVERTIP."

Moulded into a very dense structure, Grizzly "SILVERTIP" provides longer wear, with peak performance, under extreme service conditions. Yet it retains such other desirable characteristics as soft pedal, quiet operation, and ability to make quick stops repeatedly without fading.

Grizzly "SILVERTIP" is available in undrilled multiple coverage segments and in individually boxed sets, drilled and countersunk to vehicle manufacturers' specifications. It comes in oversizes as well as standard thicknesses. For full details, ask your Grizzly Distributor. Grizzly Manufacturing Company, Paulding, Ohio.



"SYNCHRO-SETS"

For riveting. Famous for nearly 40 years for smooth, soft-pedal, safe stops. Drilled and countersunk to manufacturers' specifications. Individually boxed.

PRECISION BUILT BRAKE BLOCKS

Finished to close tolerances in every dimension, controlled throughout manufacture to assure uniform performance characteristics.



THE BEST YOU CAN SELL!



BRAKE FLUID

Meets or excels all S.A.E. standards. Chemically stable. Anti-foam. Moderate duty type for range of 300° to —80°. Heavy duty type, 325° to —60°.

"SAFTIBOND" LINING

The original lining with factory applied-bonding agent, which saves time, produces cleaner, better results, at less cost.



Bear in Mind  ... ask for

GRIZZLY
REG. U.S. PAT. OFF.
BRAKE LINING

Effects Of Highway Laws

Continued from Page 10

"Furthermore, if the funds had been spent for highways, there would have been less unemployment at the time it was a serious problem. Also there would have been less traffic congestion and fewer traffic casualties and less property damage. . . ."

Mr. Butler blamed inefficient highway planning for many of our present day bottlenecks. Planners did not look

far enough into the future in terms of highway requirements, he said, and the resultant critical deficiencies are going to get worse before they get better.

Discussing the present lag in highway building programs, Mr. Butler emphasized that steel is not getting into highways to the extent intended on the basis of approved allocations earlier this year. The Bureau of Public Roads

requested an allotment of 482,000 tons for the fourth quarter, but this amount was reduced by DPA to 250,000 tons—only 100,000 tons of which could be used in securing structural steel shapes. This allotment specifically limits the one type of road steel which is causing the greatest delay in road construction schedules.

Citing other changes necessary for improving conditions in highway transportation, Mr. Butler lambasted the ton-mile tax. Because of the deceiving simplicity of the concept and the relative ease of obtaining approximating data and making calculations, he said, the ton-mile theory has attracted considerable popularity. But most states have had considerable difficulty in adapting the theory to an enforceable and administratively feasible tax.

Mr. Butler called for united action among the highway users in securing cooperation between the legislator and the operator. He recommended adoption of the Uniform Vehicle Code as a means of "increasing safety, promoting the efficiency of highway transportation, assisting traffic law enforcement, reducing congestion, aiding national defense transportation and in providing numerous other benefits."

However, we must put our house in order first, he stated. The willful violation of state laws by a small fringe of the trucking industry cannot be tolerated. We must abandon some of the intransigent stands both on the part of operators and highway officials. And we need to correct some of the critical deficiencies that are causing congestion in our highways. In some states this means better use of existing facilities; in others better use of existing highway revenues. In some states, it means additional revenues must be made available for highways. There must be firm insistence on sound financing principles, he concluded, in any event.

END

Please Resume Reading Page 14

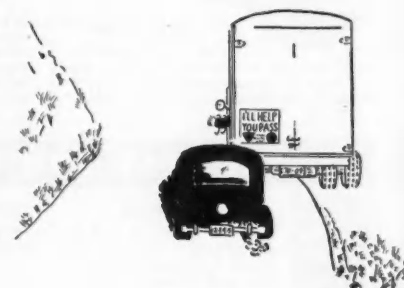
UNIVERSAL JOINTS & CHASSIS PARTS



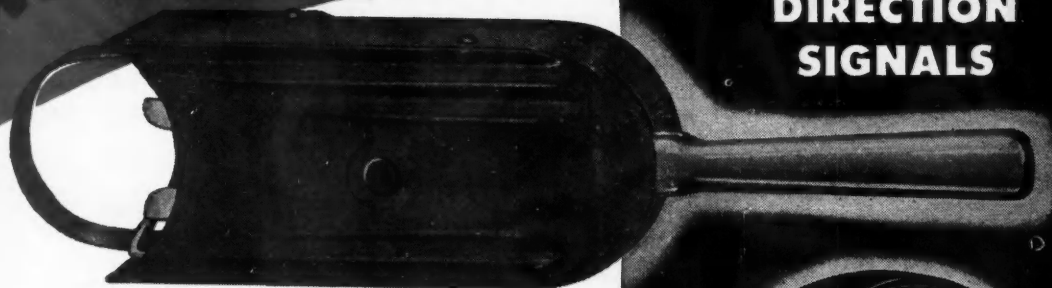
This great trademark means—

- A complete line.
- Finest materials.
- Exact manufacturing.
- Continuous inspections.
- Uniform packaging.
- Strategic warehousing.

NEAPCO PRODUCTS INC.,
POTTSTOWN, PA.



LOOK IN THIS DIRECTION



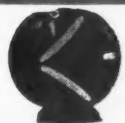
**for
MAXIMUM HIGHWAY SAFETY at
MINIMUM OPERATING EXPENSE**

For Safety's sake . . . put the DIETZ new Direction Signal Sets to work on your payload units. Class "A" Type 1 DIETZ Signal Lights (shown at right) are:

**No. 120 SINGLE FACE • No. 125 DOUBLE FACE
No. 130 FLUSH MOUNTING**

All Lights with either vivid RED or AMBER lenses

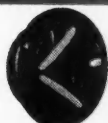
The DIETZ Self-Cancelling Direction Signal Switch—No. 111-C—illustrated above—operates at the flick of a finger, then returns to neutral—*Automatically*. Complete with *Flasher* for unmistakable *Signalling*. Easily mounted on all 1½" to 2" diameter steering posts. Non-cancelling type Switches also available. All DIETZ Lights and Switches Tested by Electrical Testing Laboratories. Available from your Jobber now! R. E. DIETZ COMPANY, 225 WILKINSON STREET, SYRACUSE 1, NEW YORK.



120-A



125-A



130-A

CLASS "A" TYPE 2 SIGNAL LIGHTS WITH DIRECTION ARROWS

Outstanding Class "A" Type 2 Direction Signal Lights. Bright AMBER arrows on black backgrounds. Characteristically rugged DIETZ construction.

DIETZ Switches and Lights are available individually or in many popular set combinations. Perfect for new installation and replacement. Class "B" DIETZ Direction Signals for passenger cars and commercial vehicles under 80" wide also available.

CLASS "A"

DIETZ

**SELF-CANCELLING
DIRECTION
SIGNALS**

120

125

130

OVER A CENTURY OF

Safety

LIGHTING

DIETZ



INTRODUCING . . .

...three new sales representatives for the Monmouth line of engine bearings, clutch plates and parts, and chassis parts for Replacement Sales Div. of The Cleveland Graphite Bronze Co.: HOWARD O'NEILL, Los Angeles-Phoenix territory; MERLE SHIREY, Spokane-Portland-Seattle region; RICHARD COOPER, Philadelphia-Syracuse-Buffalo territory.



...JAY S. HUDSON, assistant to executive vice president of Willard Storage Battery Co., Cleveland, Ohio.

...H. GORDON SMITH, vice president and general manager of the textile division, named to the newly created post of executive vice president of the U. S. Rubber Co.

When Working Room is at a Premium



PUROX No. 33
WELDING BLOWPIPE
With 4 Heads...\$23

Word gets around fast. That's one reason why more than 33,000 aircraft, auto body, and sheet metal men now use the Purox No. 33 Welding Blowpipe. They're getting their jobs done faster, better, and easier than ever. Other good reasons are built right in the blowpipe.

With medium welding head, the No. 33 is just 12 $\frac{3}{4}$ in. long and weighs only 12 $\frac{1}{2}$ oz. It's balanced, too, so you can handle it all day without tiring. Its valves are up in front—right under your thumb. Its eight heads, each with its own shielded mixer, weld any metal up to $\frac{7}{16}$ in. thick. Long and slender, they reach easily into the tight spots or around jigs and fixtures. Each gives you the stable flame you want, with full control of heat output for critical work.

Let your Purox Jobber show you how the No. 33 Blowpipe can earn more for your shop. Or write to Linde Air Products Company, a Division of Union Carbide and Carbon Corporation, 30 E. 42nd St., New York 17, N. Y.

The term "Purox" is a registered trade-mark of Union Carbide and Carbon Corporation.

PUROX

Trade-Mark

**ORDER FROM YOUR
LOCAL JOBBER**

...RODERICK H. CLARKE, as sales manager of the Sterling division, White Motor Co., Milwaukee, Wisc.



...EADS JOHNSON, JR., appointed executive vice president of the Southern Wheel Division, American Brake Shoe Co.



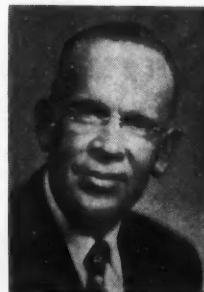
...G. F. JONES, elected vice-president of Mack Mfg. Corp., Mack Motor Truck Corp. and Mack Motor Truck Co.

...WILLIAM N. JOSEPHS, as manager of the New York branch of the Bowers Battery & Spark Plug Co.



...JOHN F. SPAULDING, as sales manager of the Black & Decker Mfg. Co., Towson, Md.

...HOWARD H. SHELTON (left) southern regional manager of Highway Trailer Co. with offices in Atlanta, Ga., and D. E. PHILLIPS (right), as manager of the Pittsburgh, Penna., branch office.



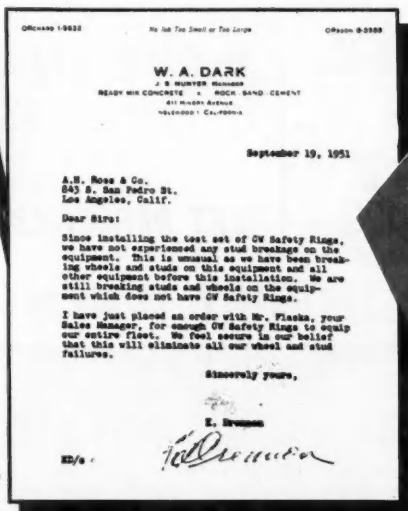
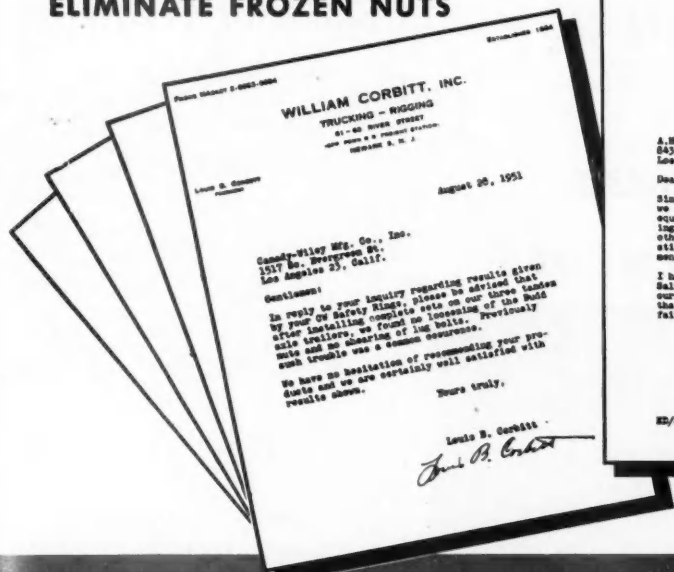
(TURN TO PAGE 310, PLEASE)

PROOF! NO MORE BROKEN STUDS OR LOOSE DUALS

Users from Coast-to-Coast report ...

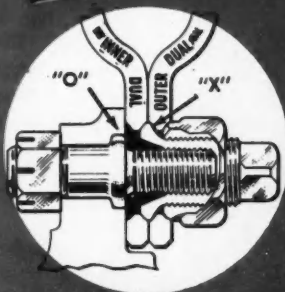
C-W SAFETY RINGS

STOP STUD AND WHEEL FAILURES
INCREASE TIRE MILEAGE
ELIMINATE FROZEN NUTS



THE LITTLE RING
THAT DOES THE
BIG JOB!
LIST PRICE:
50c ea.

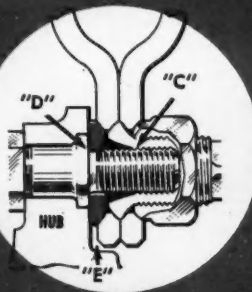
WHEN THE
INNER DUAL
IS LOOSE,
THE WHOLE
ASSEMBLY
IS LOOSE.



BEFORE

NOTE HOW OUTER DUAL IS NOT SUPPORTED BY INNER NUT AT "X."
NOTE LACK OF SUPPORT AT "O."
NOTE HOW OUTER DUAL IS KEPT TIGHT ONLY AS IT IS PRESSED AGAINST THE INNER DUAL BY THE OUTER NUT.

ORDER THROUGH YOUR JOBBER OR DIRECT.
TERRITORIES OPEN. WRITE FOR INFORMATION,
1517 South Evergreen



AFTER

WHEN C-W SAFETY RINGS (SHOWN IN RED) ARE INSTALLED, NOTE HOW INNER DUAL IS THEN SUPPORTED ON BOTH SIDES OF THE DISC.

Note how load is now distributed on the stud at TWO points, "C" and "D," which lessens strain on studs.

Note air space "E" which now separates hub from wheel and reduces heat transference from brakes to tires, thereby letting tires run cooler and increasing tire mileage.

Quick and simple to install on your present Budd Studs.

Made in 2 sizes
• Standard 3/4" Budd Stud
• 1 1/4" Bus-Type Stud

CANADY-WILEY MANUFACTURING CO., INC.

"DESIGNERS OF RELIABLE TRANSPORTATION EQUIPMENT SINCE 1919"

1517 South Evergreen, Los Angeles 23, California

Introducing . . .

...FRED G. FREUND, director of the traffic department of the American Trucking Associations, Inc., elected to the board of directors of the National Defense Transportation Assn.

...GEORGE T. HUMPHREY, Jr., assistant general manager of the Service Sales Division The Timken Roller Bearing Co.

...JAMES H. INGERSOLL, as vice president

of the Ingersoll Products Div. of Borg-Warner Corp.

...FRANK A. FRITZ, named western divisional sales manager The Toledo Steel Products Co.

...EDWIN C. BECK, as chief engineer Sealed Power Corp.

...HAROLD H. REIMAN, appointed manager, and Val F. Gruenewald assistant manager of the motor transport division of The Pure Oil Co.

...R. WARREN GRIBBEN, appointed sales

manager Automotive Division of Lincoln Engineering Co., St. Louis, Mo.

...CHARLES L. CORWIN, promoted to advisory sales manager Champion Spark Plug Co.

...D. V. PERRY, named to the position of assistant sales manager spray painting and finishing division The DeVilbiss Co.

...RUSSELL P. SHERRILL, who has joined the Bridgeport Chain & Mfg. Co., as New England district sales manager.

...F. I. GOODRICH, as general manager of the Spring Division, Eaton Mfg. Co.

...JOHN J. PETERSON, as eastern division manager of Trailmobile Inc., with headquarters in New York City.

...RICK E. MURBARGER, general sales manager of Sealed Power Corp., Muskegon, Mich., succeeding GEORGE W. DAVIES.

...M. F. FEATHER, sales manager of the Drumgold & Glenn division of Union Asbestos & Rubber Co. of Chicago. Mr. Feather has been in charge of truck body and accessory sales, the Fruehauf Trailer Co., until recently.

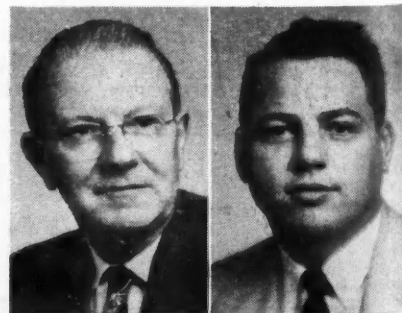
...WOODRUFF LAWN, as manager of the Pittsburgh, Penna., branch of Reo Motors, Inc.

...A. V. PETERSON, appointed assistant sales manager for the PAR Compressor Division, Lynch Corp.

...HARVEY R. COOK, as advertising manager of The Timken-Detroit Axle Company, Detroit, Michigan. Effective at once, Mr. Cook will assume full charge of all advertising and sales promotion for the parent company and Timken Silent Automatic, home heating equipment division.

...W. J. McCLOSKEY, Bethesda, Md., as chief of the Government Traffic Section of the American Trucking Associations, Inc. Mr. McCloskey succeeds Ralph D. Yates, who has resigned.

...RONALD E. HULL (right), sales manager of the Utility Division of Highway Trailer Co., Edgerton, Wisc., and R. A. BRADLEY (left), tank trailer consultant for the western division of the Highway Trailer Co., with offices at 120 South La Salle St., Chicago.



POWER

IS CONTROLLABLE

angle heads

ARE DETACHABLE

CP AIR IMPACT WRENCHES



CP-770, with angle head, takes the hard labor out of a tough preventive maintenance job.

—for easier, faster running of nuts, bolts and screws on Cylinder Heads, Oil Pans, Main Bearings, Front End Parts, Bumpers, Clutches, Transmissions, Spring U-Bolts, Wheels and Doors.

Nuts, bolts and screws can be run to uniform tightness. Short overall length and detachable angle heads make CP Controllable Power Air Impact Wrenches ideal for close-quarter jobs.

Capacities: CP-730 to 1/2" bolt size; CP-750 to 5/8" bolt size; CP-770 to 1" bolt size.

For heavy truck and trailer jobs, the CP-365 Air Impact Wrench, capacity to 1 1/4" bolt size, is available in straight or angle head models.

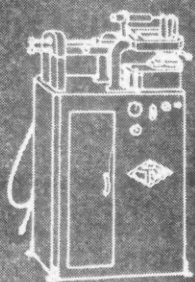
Write for
complete
Catalog
SP-3029



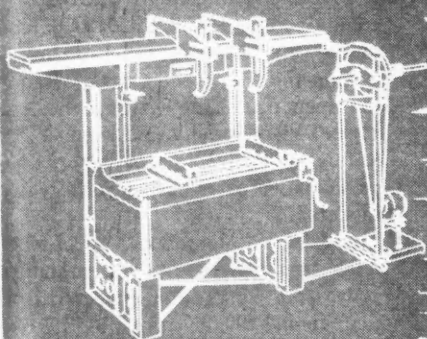
**CHICAGO PNEUMATIC
TOOL COMPANY**

General Offices: 8 East 44th Street, New York 17, N. Y.

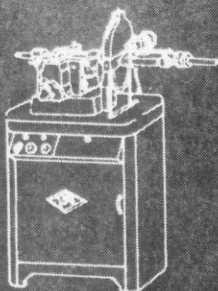
AUTOMOTIVE SERVICE EQUIPMENT • FENDER IRONS • ELECTRIC TOOLS
AIR IMPACT WRENCHES • AIR COMPRESSORS • PNEUMATIC PUMPS



KPM For precision Boring (in alignment) of Front Wheel Spindles for King Pins, without removing Brake Flanges.



TA-14 and TA-15 Main and Camshaft Line Boring Machines — Perfect restoration of original centerline of main and camshaft bores.



Bearing resizers — For precision sizing of main and connecting rod bearing inserts.

TOBIN-ARP MFG. CO.

Engineered

for your jobs...

THAT'S THE STORY BEHIND TOBIN-ARP EQUIPMENT



PM-Machines — The Factory Boring Method for precision Pin Fitting — Also Bores rocker arms, wheel cylinders, steering sectors, etc., in alignment. No Bell Mouth—No Barrel—No Abrasive to ruin bearing surfaces.

NO BELL MOUTH

NO BARREL

NO ABRASIVE

PM-100

Equip YOUR shop with these Tobin-Arp precision machines, or take your work to progressive shops offering you precision work on Tobin-Arp Equipment.

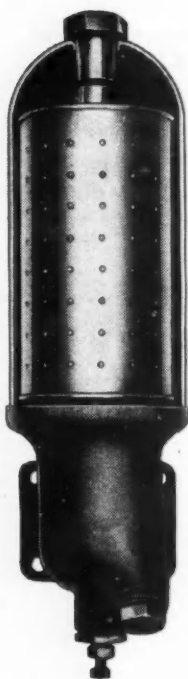
TOBIN-ARP *Always First*
With the Best!

2845 HARRIET AVE., MINNEAPOLIS 8, MINN.

TODAY, More Than Ever, GOOD Filters Are Vital!



FOR ALL ESSENTIAL EQUIPMENT



Cut-away view shows
location of filter ele-
ment in filter housing.



To insure maximum effi-
ciency and protection,
always use Michiana Re-
placeable Elements.

● Prolonging engine life, saving time in unnecessary labor on engine overhauls and premature parts replacements, plus the actual savings in use and cost of oil, all can be assured with *good* oil filters.

All types of engine-powered vehicles require *good* oil filter protection—delivery cars and trucks, buses, military equipment, agricultural and construction machinery, tractors.

Performance records over the years have proved the efficiency and economy of MICHIANA Oil Filters. Such records and engineering tests have led to their widespread selection and recommendation by the most experienced operating men and engineering staffs of leading engine builders.

MICHIANA Filters are made in a range of capacities to meet all engine requirements.

MICHIANA PRODUCTS CORPORATION
Michigan City, Indiana

MICHIANA OIL FILTERS

Tire Life Limited In Mountainous South America

American truckers and fleet operators are accustomed to receiving long service from their truck tires. Our South American neighbors in Colombia, however, report that poor highway conditions in their country cut the average life of a truck tire to only six months.

According to William E. Hatcher, general sales manager of Industria Colombiana de Llantas, associate plant of the International B. F. Goodrich Co. in Bogota, one of the best roads in the country has a minimum of 3500 curves in one 62-mile stretch.

"Since 85 per cent of the roads are mountainous, Colombia's 70,000 motor vehicle operators find it difficult to prolong the life of their tires," Hatcher said recently, while visiting the home office of his company in Akron. "Overloading and bleeding of air pressure are common practices, especially with truckers."

Industria Colombiana de Llantas, which imports most of its rubber directly from Singapore, expects to produce about 200,000 tires in 1951, as compared to 50,000 in 1945, when the plant was founded. It currently employs 600 persons, 184 more than when operations were started.

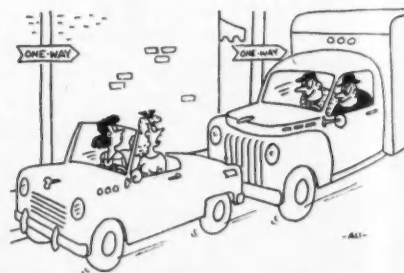
Safety Congress

Continued from Page 14

Ltd., Vancouver, B. C.; L. D. Gale, Beloit Bus Co., Beloit, Wis.; J. S. Osborne, Cincinnati, Newport & Covington Railway Co., Covington, Ky.; Program Chairman J. G. Butler, Capital Transit Co., Washington, D. C.; Secretary, Lee Mills, The Cincinnati Street Railway Co., Cincinnati, Ohio; N.S.C. Staff Representative, Paul H. Coburn.

END

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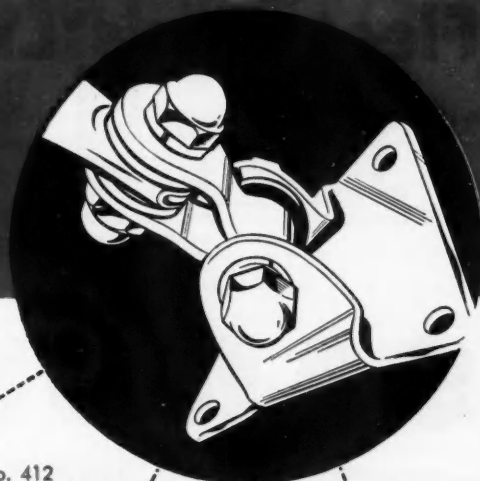


"Now I know they're following us!"

Longer Life for Good Lookers

NEW STURDY, STEADY, ONE-PIECE

GRIFFIN MIRROR MOUNTING



No. 456



No. 480



No. 412



No. 403

● Here is a heavy gauge, one-piece steel mounting bracket for COWL ATTACHMENT—a very rigid installation. It eliminates objectional vibration of old type door hinge attachments. It's much easier to install.

Little parts or products—such as mounting brackets—are given top attention in every Griffin design.

The reason: Griffin knows the safety lighting business, and the fleet business. The men at Griffin have been engineering and producing stop lights, turn signals, reflectors, mirrors for many years, for millions of vehicles. They know all the angles—and the importance of details—in safety and in money.

The result: Griffin engineers have made it a habit to come up with unusual and unusually rugged equipment. It will pay you to standardize with Griffin—the complete fleet line.

Fender Mirror No. 456—Diminishing lens allows shoulder-to-shoulder sight. Off center ball mounting for greater range of adjustment. Rugged housing, shockproof telescopic mirror arm. Chrome or aluminum vehicle finish.

Jumbo Rectangular Mirror No. 480—New greater lens area (50 square inches) gives broader view. Silver-plated, sealed head. 6 3/4" by 9 1/4", overall size.

Round Mirror No. 412—One-piece heavy metal body. Silver-plated, sealed mirror head, 6" diameter. Telescopic mirror arm, hinge or panel mounting.

Rectangular Mirror No. 403—Silver-plated, sealed mirror head. One-piece body, curved face door. Telescopic mirror arm, 15" to 27".



THE GRIFFIN LAMP COMPANY
HAMILTON, OHIO



SANDERS

as dependable as your brakes

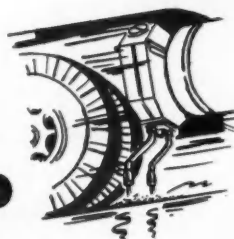


"AIR-TRAC"
Air-operated
Model 50-A



"VAC-TRAC"
Vacuum-operated
Model 50-V

AIR and VACUUM OPERATED



Proved under all kinds of winter road conditions, throughout the past two years, these "Air-Trac" and "Vac-Trac" sanders provide traction regardless of weather conditions.

Compare the value of your shipments and the necessity of maintaining schedules with the small cost of having these sanders to insure over-the-road safety in slippery, icy weather.

Located directly in front of the driving wheels, the sanders — "Air-Trac" or "Vac-Trac" — are actuated by a small valve at driver position. They deliver a generous supply of grit through patented, weatherproof nozzles — in the center of each wheel tread.

May we send you Bulletin 450-L — in the interest of safe travel for your trucks?

THE LINTERN CORPORATION
29-2 RIVERSIDE DRIVE • BEREA, OHIO

Defense Production Record, a periodical, has just made its first edition. It is produced by the Defense Production Administration and it summarizes orders, regulations, recommendations of industry advisory committees and other activities of the government's defense production agencies. The summaries will include a brief of the action, tell where the official text may be obtained, identify other supplementary material, and give the name of the issuing agency. The weekly bulletin is available upon a \$2.50 yearly subscription order addressed to the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Motor Carrier Packaging and Inspection Manual is a book compiled by Harry E. Hassett, manager of the Southern California Motor Truck Association's Weighing and Inspection Bureau. It contains a complete study of all types of containers, including instructions on how to select the proper container for a particular job. It tells how these containers may fail and why, and gives instructions on how to make intelligent inspection reports on package failure. It is written in simple language, illustrated, and will be available soon from the MTASC.

Time Saved With Oakite discusses how steam-detergent cleaning saves time and work and helps cut costs in connection with maintenance operations. It is an illustrated folder available from Oakite Products Co., 26D. Thames St., New York 6, N. Y.

American Utility Snatch Blocks, toggle blocks, wrecker blocks, hand-winches, Crosby clips and wire rope sheaves are illustrated in a new specialized equipment catalog recently released by American Hoist & Derrick Co. of St. Paul, Minn. Information to simplify ordering includes numbers, sizes, and capacities. Also included are pictures of the equipment in use. Copies of Catalog No. 300-18 are available now from American Hoist & Derrick Co., St. Paul, Minn.

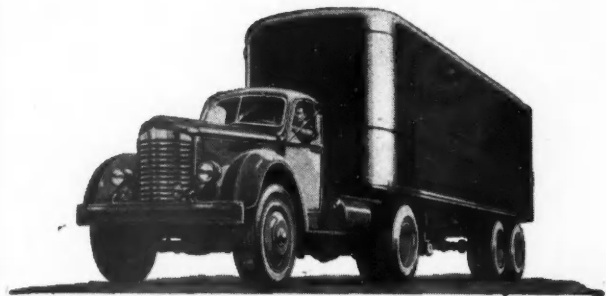
Plastic Caps for alemite fittings are described in a bulletin No. P-5103 available from S. S. White Plastics Div., New York. It describes new plastic covers that protect grease fittings from grit and dirt which may be forced through the fitting into the moving part. The covers are made for dot, button-head, zerk or hydraulic fittings.

Mobile communications service problems are discussed and analyzed in a new brochure prepared by RCA Service Co., Gloucester, N. J. It covers such service programs for mobile and microwave communications as turnkey installation, installation supervision, scheduled, and emergency service.

Kinnear Rolling Doors, made by Kinnear Mfg. Co., Columbus, Ohio, are presented in a 32-page illustrated booklet. The specifications, dimensions, and applications of the Kinnear line are pictured and discussed in detail.

(TURN TO PAGE 316, PLEASE)

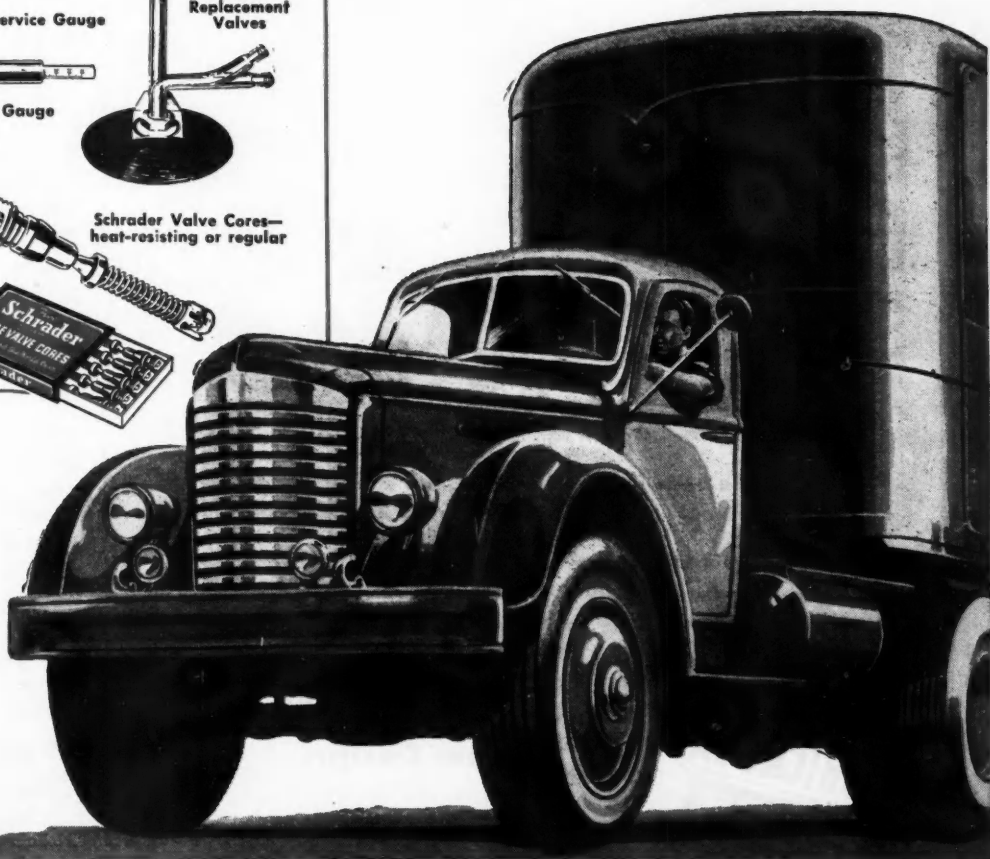
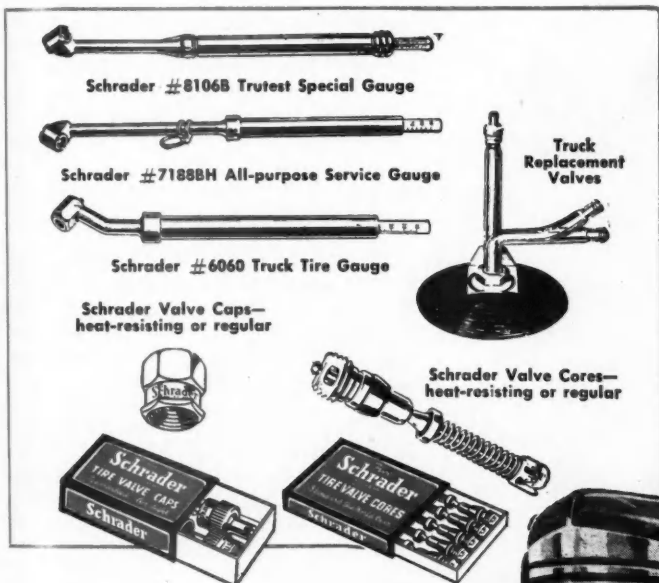
Move 'em FASTER— cut costs on every load!



Stalled loads due to roadside flats cost money that regular tire maintenance helps prevent. Accurately gauged air pressure in your tires gives extra miles from vital rubber, moves your vehicles through on time—and helps cut expensive flats.

Put Schrader Products to work for you. Check all your service gauges and inflating devices regularly with a Schrader #8106B Trutest Special. A Schrader #7188BH or a #6060 all-purpose service gauge in each of your vehicles means that *accurate* gauge readings are available wherever your vehicles go. And for all tire valve replacement, caps, cores and service tools—specify Schrader.

A. Schrader's Son, Division of Scovill Manufacturing Company, Incorporated, Brooklyn 17, New York.



Schrader

REG. U. S. PAT. OFF.

FIRST NAME IN TIRE VALVES

FOR ORIGINAL EQUIPMENT AND REPLACEMENT

Your Profit is measured in pounds

You are aware of this and so are we. It is our job to design our tandem to save you profitable pounds.



FOR EXAMPLE:

The Hendrickson Tandem basic design eliminates oversize springs, which add excessive weight.

Hendrickson equalizing beam and ball-and-socket construction

- reduces the shock and strain of each road bump or road irregularity 50% before it can reach the spring.
- keeps the axles in perfect alignment to each other and with the frame—no distortion to be carried by the springs.
- provides absolute equal distribution of weight between axles—leaving the springs free of this corrective duty.



**The Hendrickson
Tandem Design
will save you
profitable pounds!**

HENDRICKSON MOTOR TRUCK COMPANY

3001 West 47th Street • Lyons (Chicago Suburb) Illinois

Fleetman's Library

Continued from Page 314

Willard Storage Battery Co. has just issued a new battery catalog which, for the first time, catalogs the line of batteries made by this company. The information includes all models with their latest developments. Essential reference and technical data are shown in complete form.

Cranes and derricks, manufactured by Silent Hoist and Crane Co., Brooklyn, N. Y., are presented in a complete 6-page folder. The information covers various models and application of truck hoists in the Silent Hoist line.

Background information of interest to all truck owners may be found in a 40-page booklet prepared by the Bendix Aviation Corp., which lists hundreds of different products supplied by the corporation's 15 plants to all phases of American industry.

Apprenticeship as a source of supervisory personnel is revealed in an article by W. C. Van Cleef, director of industrial relations for Allis-Chalmers Mfg. Co., which appeared recently in an edition of "Supervision." Reprints of the article are available from the Bureau of Apprenticeship, U. S. Department of Labor, Washington, D. C.

Plant Protection For Defense is the title of a revised manual just published by Detex Watchclock Corp., New York. Training of watching personnel, the planning of hourly routes and other important data are contained in this booklet.

Ball and Roller Bearing Engineering, prepared by SKF Industries, Philadelphia, covers such subjects as bearing types, nomenclature, capacities, selection, design, installation, maintenance, causes of failures, and load calculations.

Delta Power Tool Journal, now being published by the Rockwell Mfg. Co., gives many applications of power tools, with the various Delta model recommended for each application. Recommended as a good reference guide. Published periodically.

Bendix Westinghouse has just released a new 32-page catalog, a guide to their line of products, service parts, exchange parts, etc. The catalog will be available through distributors and jobbers.

Weaver Mfg. Co. has published a 20-page brochure entitled "Here's How to Get More Profits from Your Safety Service Departments." The book was prepared primarily for the service station and mechanic in the commercial trade, but many items contained in it may apply to the fleet shop.

A hoist for long-wheelbase dump trucks is described in a new bulletin by Hercules Steel Products Co.

(TURN TO PAGE 318, PLEASE)

SUN
makes it easier
for you



... to control maintenance costs!

Take the guesswork out of maintenance and you eliminate unnecessary expenses! With the SUN Master Motor Tester, you learn engine condition **before** repairs are started. A SUN Test of the completed job shows whether the job was done right. With modern, scientific SUN Instruments, you control and reduce maintenance costs. You get longer, more economical operating life from every engine. A fleet maintenance plan is ready for you, without cost or obligation—write SUN TODAY!



SUN ELECTRIC CORPORATION 6359 AVONDALE AVENUE
CHICAGO 31, ILLINOIS

RA560 FO

Fleetman's Library

Continued from Page 316

Rinck-McIlwaine, Inc., New York, have a new valve spring tension chart for passenger cars, trucks, tractors, and engines from 1940 to 1951 models inclusive. It covers 95 per cent of American-made vehicles. The price is \$1.00.

Specifications for the fork trucks made by the Baker Industrial Truck Div. of Baker-Raulang Co. are contained in an

8-page bulletin, No. 1326. It gives the reader complete information on the Baker line as well as dimensional drawings which show the maneuverability of the trucks. Detail specifications are included which will permit comparing the various trucks with other fork trucks.

Heavy Duty Federal Trucks are illustrated in a bulletin just released by the Federal Motor Truck Co., Detroit. It illustrates many types of heavy duty vehicles available including six-wheelers and has a section of Federal engines, construction features and specifications of the complete line.

How to frame, hang, mount and support many kinds of mechanical and electrical equipment is the subject of an illustrated construction catalog issued by Unistrut Products Co., Chicago.

Fires may be prevented, industrial accidents lessened, according to the new edition of the National Safety Council's 800-page book, "Accident Prevention Manual for Industrial Operations.

Tool catalog, pocket size, has been prepared by Duro-Chrome (Duro Metal Products Co.), Chicago. It is a 5 in. x 7 in. mechanics' catalog designed to fit the pocket or go into the tool chest.

"Battery" is the title of an elaborate booklet produced by Pioneers, Inc., Oakland, Calif., in celebration of the firm's fourth anniversary, and telling about the company's plan of reconditioning "junk" batteries by use of an additive, AD-X2.

Reflective signs for trucks that may be made by using "Scotchlite" material are described in a catalog compiled by the By-Buk Co., Los Angeles. The catalog gives various case histories of users of the material and detailed instructions as to its application. A charge of 10 cents is made for mailing costs.

Washing of buses and trucks, with various mechanical installations made by Ross and White Co., Chicago, is discussed in detail with several pages devoted to pictures of the "Blackhall" Bus Washer. The bulletin consists of pictures of various bus and truck that have used the equipment successfully. Some space is devoted to custom installations that use Blackhall equipment.

The Story of Quality Finishes is a pamphlet which takes the reader on a pictorial trip through a paint factory. The reader sees the paint being made and follows the camera through each process. Then, there is a description of paint types and finally a two-page catalog of paints manufactured by McDougall-Butler Co., Inc., New York.

Fageol-Liner motor coaches of the urban and suburban varieties are described in a revised version of the Twin Coach Co. bulletin L-4405 just released. Complete mechanical and design specifications, interior appointments and action photos are featured.

Valve Spring Tension Chart, said to include the data on valve springs for 95 per cent of American vehicles, has been prepared by Rinck-McIlwaine, Inc., New York, and is available for \$1 postpaid.

Occupational Outlook Handbook, published by the U. S. Government Printing Office, gives a report on 433 occupations by which Americans earn their living, with a complete analysis and forecast of the labor situation in each. Price, \$3.00.



FOR SAFE PARTS CLEANING: KELITE FORMULA 555, a non-flammable cleaner, is the better way to clean carburetor, fuel pump, and other small parts on automotive and diesel engines. Contains no phenolic compounds. Economical to use.

FOR FASTER TRUCK WASHING: KELITE FORMULA 99 is the modern commercial cleaner that easily removes diesel smoke and road oil, and brings out original colors of paint. Apply with brush... rinses free in a jiffy.

FOR BETTER STEAM CLEANING: KELITE NO. 24 is the fast, penetrating compound that dissolves soil accumulations like magic... yet actually costs less to use. For aluminum and painted surfaces, KELITE FORMULA 89 is safe, yet extremely effective.

FOR BETTER RE-CAPS: KELITE FORMULA 304 removes carbonized deposits in matrix from natural or synthetic rubber. Use either immersion or brush-on method. Saves time... keeps molds always bright as new.

Yes, take a look at these and many other time and money saving Kelite super cleaners. Your Kelite Service Engineer will demonstrate them without cost or obligation. Just phone your local Kelite office, or write to nearest address below.

KELITE PRODUCTS, INC.
Los Angeles 12, Cal.
1250 N. Main St.
Chicago 45, Ill.
3401 Touhy Ave.
Newark, New Jersey
51 Clinton St.

"KELITE" REG. U.S. PAT. OFF. • pH CHART COPYRIGHTED 1942 BY KELITE PRODUCTS, INC.

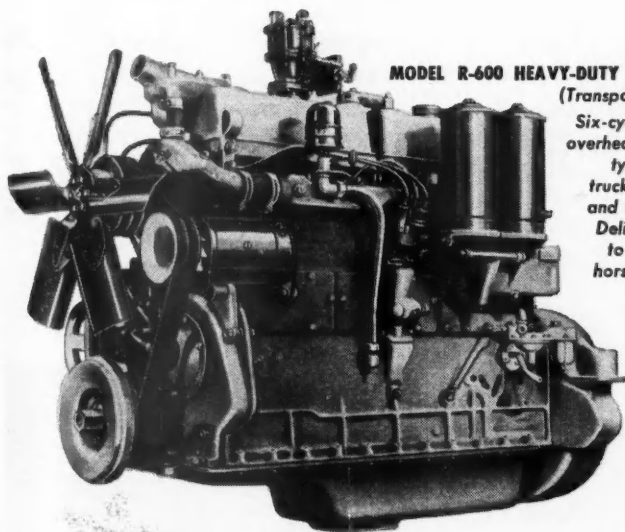


SERVICE OFFICES IN PRINCIPAL CITIES

**CONTINENTAL
RED SEALS...**

Squeeze ALL THE POWER FROM ANY FUEL

When you buy a truck or highway tractor powered by one of the latest Continental Red Seal transportation engines, you get the benefit of almost 50 years of alert and progressive engineering. Most recent among Red Seal advances that save real money for you are improvements in cylinder head design, carburetion, manifolding and valving, combining to squeeze the last ounce of power from any fuel. For most ton-miles per gallon—Diesel or gasoline—haul with Continental Red Seal power in 1952.



MODEL R-600 HEAVY-DUTY ENGINE
(Transportation)

Six-cylinder—
overhead valve
type—for
trucks, buses
and tractors.
Delivers 110
to 160 net
horsepower.

Only **IN**

CONTINENTAL RED SEAL DO YOU GET ALL THIS:

- Patented Continental system of Individual Porting.
- Sodium-cooled positive-rotation Silchrome exhaust valves, Stellite-faced, with Stellite seats.
- Dual downdraft carburetion.
- Durex-100 Diesel-type bearings.
- Tocco-hardened alloy steel crankshaft.
- Full-length water jacketing.
- Controlled-direction coolant flow.
- Chrome-plated top piston rings.
- Built-in oil cooler and filter.
- Leakproof water pump.



FACTORY-AUTHORIZED SERVICE AND GENUINE CONTINENTAL
RED SEAL PARTS AVAILABLE FROM COAST TO COAST

Continental Motors Corporation

MUSKOGON, MICHIGAN

CCJ News Reports

Continued from Page 27

Council Makes Awards

The recipients of the National Council of Private Motor Truck Owners' awards have been announced. The awards are made in recognition of outstanding achievement in highway safety and accident prevention by private motor truck operators. To date, 236 fleet operating units have been honored. The awards are: the Gold Seal Certificate of Achievement for no

accidents during the year; the Red Seal Certificate of Merit for a 40 per cent or more reduction in accident frequency rate from the preceding year; and the Green Seal Certificate of Progress for a 20 per cent reduction in the accident frequency rate.

Ethyl Demonstration

Late in October the Ethyl Corp, in cooperation with the Oil Industry In-

formation Committees, staged a convincing demonstration of the efficiency of modern fuels and engines compared with their counterparts of a quarter century ago.

Using a then-unopened stretch of the New Jersey Turnpike, Ethyl Corp pitted the old timers against modern cars in acceleration and fuel economy tests. As an example of the acceleration test a '51 Chrysler with present day fuels, bested a 1928 model with '28 fuels by 51 per cent.

In one of the economy runs two 1950 Oldsmobiles with experimental engines were used. Only difference was that one had a 4.5 to 1 compression ratio and 1925 fuel, the other had an 8 to 1 ratio and 1951 fuel. Both running at 30 mph (against a high wind) the first made 13.33 mpg, the latter, 18.98.

It was generally conceded that two gallons of modern fuel will do the work of three gallons of the 1925 vintage.

Anti-Freeze Ceilings Set

Anti-freeze made of natural methanol (wood alcohol) which may be offered for sale this season will carry the same dollars-and-cents ceiling prices as anti-freeze made from synthetic methanol, the Office of Price Stabilization has provided. Such anti-freeze will be classified as Type S or Type SC, depending on the concentration. As in the case of other anti-freezes, packagers of this anti-freeze are required to mark containers with the type, strength, and retail ceiling price. Retailers, in turn, must post the OPS ceiling prices.

Registration Estimate Advanced

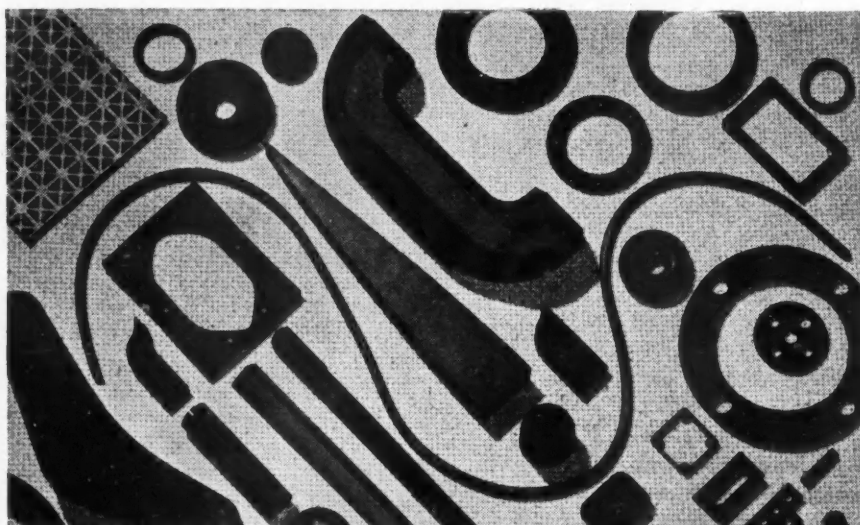
The Bureau of Public Roads of the U. S. Department of Commerce has released an estimate of the 1951 motor vehicle registrations. They predict that there will be 9,353,000 trucks and buses on the roads by the end of the year against 8,828,100 actually registered in

(TURN TO PAGE 322, PLEASE)

Matchless (?) Trailers



A novel container for advertising book matches made in the form of a trailer combination are expected to make a hit with the customers and prospects of Express Freight Lines, New York. Lion Match Co. makes them



How industry is using RUBATEX closed cell rubber

Product engineers in industries have found RUBATEX Closed Cell Rubber the ideal material for uses such as these:

Gaskets
Automobile arm rests
Anti-squeak pads
Dust barriers
Low temperature insulation
Packing cushion for fragile goods
Flotation devices

Athletic shock padding
Gymnasium mats
Kneeling pads
Crash pads
Fatigue mats
Expansion joint filler
Arctic equipment
Shoe innersoles

Typewriter cushions
Rug underpad
Seat cushions
Bath and kitchen mats
Crib and play-pen mats
Weather stripping
Vibration damping

RUBATEX is light in weight, buoyant, and has good compressive strength. It cannot absorb moisture even at cut edges. RUBATEX is rot and vermin proof and sanitary. There is a big economy factor to RUBATEX. Most gasket requirements can be cut from sheet stock without need for the expense of a molded-on skin. RUBATEX is available in natural and synthetic stocks and in soft, medium and firm forms. For more information, write for Catalog, RBS-12-49, Great American Industries, Inc., RUBATEX DIVISION, BEDFORD, VIRGINIA.

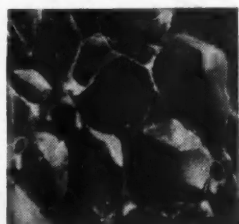


Photo-micrograph of RUBATEX closed cellular rubber shows the tiny individually sealed balloon-like chambers which retain inert nitrogen under pressure.

RUBATEX

CLOSED CELL RUBBER

ZERO MOISTURE ABSORPTION
RESILIENT AT LOW TEMPERATURES
EXCELLENT SHOCK ABSORPTION

KENT-MOORE

SPECIAL-PURPOSE SERVICE TOOLS

...keep maintenance costs down on

**4 LEADING
MAKES OF
TRUCKS!**



No doubt about it . . . Kent-Moore Special-Purpose Service Tools can go a long way toward holding maintenance and repair costs to a minimum on Chevrolet, GMC, Studebaker, and International trucks.

They improve shop efficiency, save mechanic's time. They assure better quality work, eliminate costly damage to parts.

For you see, Kent-Moore Special-Purpose Service Tools are developed in close cooperation with the truck manufacturers to perform essential factory-recommended service operations for which no adequate standard tools exist. Each one is engineered to do its specific repair job quickly, easily, accurately . . . without danger of breaking parts and at lower cost than is possible by means of improvised makeshift methods.

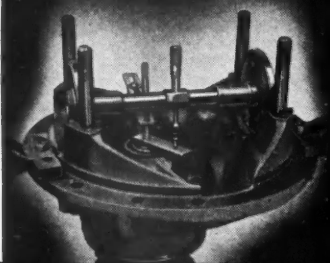
Complete information on Kent-Moore Special-Purpose Service Tools . . . for four makes of trucks, G.M. Diesel Engines, and nine leading makes of passenger cars . . . is available upon request. Write for it today!



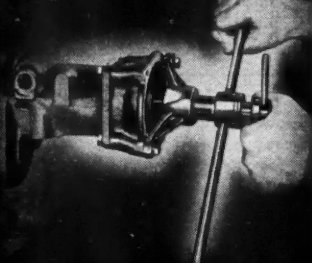
This Valve Spring Compressor saves time in servicing GMC Diesel-equipped trucks.



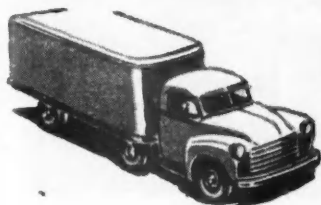
It's easy to pull Chevrolet Truck differential side bearings with this K-M Tool.



Kent-Moore Pinion Setting Gauge assures accuracy in servicing International axles.



This Transmission Mainshaft Remover prevents damage to vital Studebaker parts.



Kent-Moore Organization, Inc.

5-105 GENERAL MOTORS BLDG. • DETROIT 2, MICHIGAN
Sales and Service Engineering Representatives in Principal Cities Coast-to-Coast

HOW BIG FLEETS SAVE SPOT-TIME AND CUT UPKEEP WITH TRUK-A-DOORS



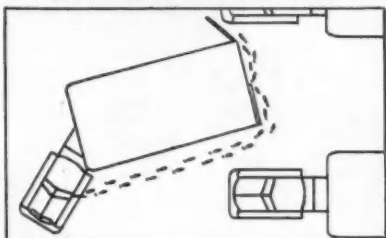
Twist latch and lift—up goes the door with the flick of a wrist, thanks to Truk-a-Door's Spring-Balanced Mechanism.

Outward and upward it swings—and even if the load has shifted against it.

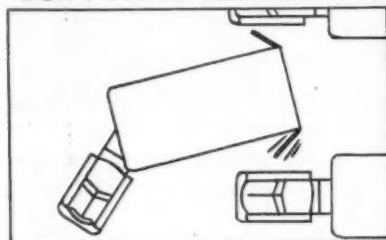
Along the truck or trailer ceiling it slides—requiring less than 2 inches of headroom.

Until finally Truk-a-Door disappears inside where it locks securely into open position and unlocks with the pull of the rope when closing.

NO MORE OF THIS—

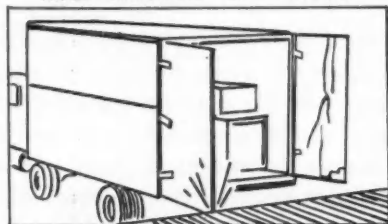


Don't Leave Cab Like This



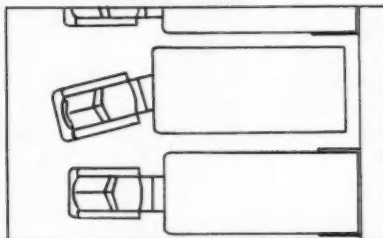
to Back In Like This

NO MORE OF THIS—

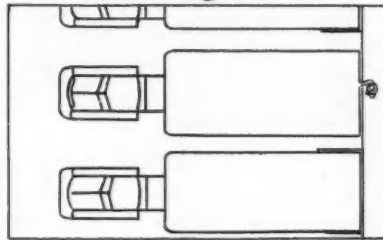


No costly, time-consuming accidents and repairs to standard-type truck and trailer doors.

JUST THIS!—

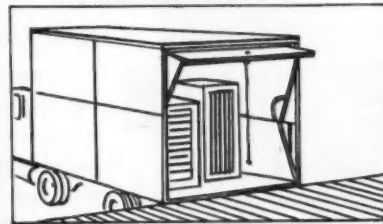


Back Right In



and Open Truk-a-Door

JUST THIS!—



You get long, trouble-free use from this kind. No chance for the usual-type accidents and wear with Truk-a-Doors.

**SEE WHAT FLEETS NOW USE TRUK-A-DOOR!
FILL IN COUPON AND MAIL TODAY!**

TRUK-A-DOOR COMPANY 6736 Faust Ave.
Detroit 28, Mich.

Tell me what Fleets are now using Truk-a-Doors and send me free-of-charge all the details and specifications of Truk-a-Doors.

Name _____ Title _____
Company _____
Address _____
City _____ Zone _____ State _____



CCJ Reports

Continued from Page 320

1950. This represents an increase of 5.9 per cent. In the passenger car field, an estimated increase has been placed at 6.3 per cent while the total increase has been placed at 6.2 for all vehicles.

Required Inspection Shows Marked Increase

Periodic inspection of motor vehicles to provide greater traffic safety for drivers and pedestrians is now required of one of every four vehicles in the nation, according to a study made by the Association of Casualty and Surety Companies as the inspection movement approached the beginning of its 25th year this fall.

With nearly one-third of all states now demanding regular inspection of automotive equipment as a highway safety measure, the total of vehicles inspected annually will rise in 1952 to more than 13,000,000. Texas and West Virginia will add from 3,500,000 to 3,750,000 vehicles to the 9,250,000 inspected this year in the dozen states and the District of Columbia which for some years have had laws requiring inspection.

This year's increase of more than one-third in the number of vehicles coming under inspection laws was hailed as one of the most significant developments in the history of the inspection movement. At the start of 1951 there were 49,143,000 vehicles in the nation, according to the Bureau of Public Roads. Last year only one in every five vehicles was inspected.

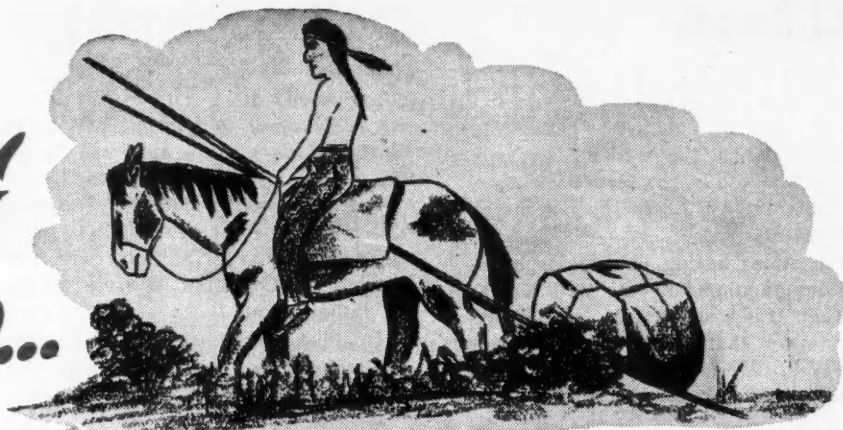
Deaths in automobile accidents in the 12 states requiring inspection last year were 14.7 percent below the national average of 7.5 deaths per 100 million vehicle miles, as computed by the National Safety Council, Mr. Harvey pointed out. In the states not requiring inspection, fatalities were 4

(TURN TO PAGE 324, PLEASE)



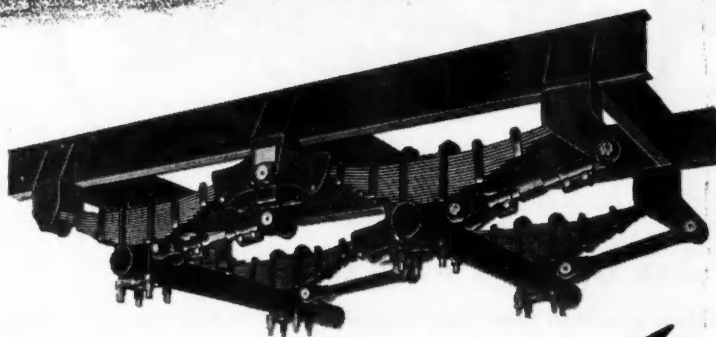
"The spare blew too. You'd NEVER guess who loaned me a tire!"

**DON'T
DRAG
THE LOAD...**



FLOAT IT

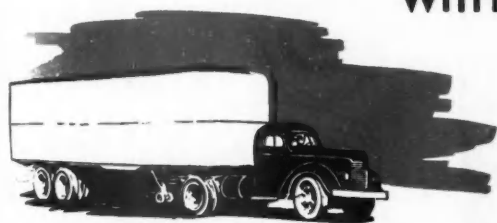
with the
REYCO



suspension!

THERE IS NOTHING ELSE IN TANDEM TO COMPARE
WITH THE FLOATING RIDE AND ECONOMY OF

REYCO!



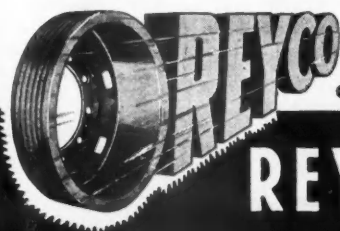
FOR
TRUCKS — TRACTORS — TRAILERS

It cradles delicate cargo safely — whether
dry, refrigerated or liquid!

Maintenance problems eliminated!

Write for descriptive literature.

**SALES AND SERVICE
COAST-TO-COAST!**



COPYRIGHT 1951

REYNOLDS MANUFACTURING CO.

SPRINGFIELD, MISSOURI

CCJ Reports

Continued from Page 322

percent above the national average. The death rate in the inspection states was 6.4, against 7.8 in the non-inspection states.

Ten states having private inspection stations appointed by the state had an average traffic death rate of 8.0 percent lower than the national average in 1950, Mr. Harvey said. These states were Colorado, Maine, Massachu-

setts, Mississippi, New Hampshire, New Mexico, Pennsylvania, Utah, Vermont and Virginia.

Compared with a rate of 6.9 deaths per 100 million vehicle miles in these 10 states, the average rate was 4.6 in the two states with state-owned and operated inspection stations. This was 38.7 percent below the national average. New Jersey, Delaware and the District of Columbia operate under the latter system.

In addition to the 14 states now requiring periodic inspection, there are nine others in which municipally-

owned stations are operated or authorized. This type of program operates under a city ordinance and a state enabling act permitting a municipality of a certain size to conduct its own inspection program.

Eleven cities now have systematic inspection of motor vehicles: Miami, Fla., Chicago, Evanston, Peoria and Springfield in Illinois; Des Moines, Iowa; Omaha, Neb.; Cincinnati, O., and Chattanooga, Knoxville and Memphis in Tennessee. Minnesota and Montana also have enabling acts for municipally-owned and operated stations, but as yet no cities in these two states have started inspection programs.

Reports of the states requiring periodic inspection of motor vehicles showed that in 1949 rejections on initial inspection were as low as 2.5 percent in one state and as high as 76.6 percent in another.

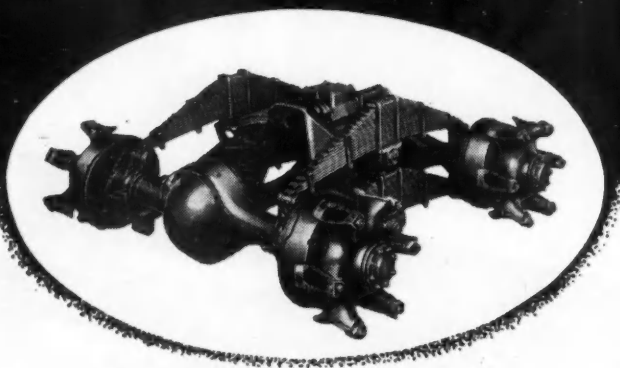
Before West Virginia and Texas adopted their laws this year, deep concern had been expressed by the President's Highway Safety Conference over the fact that although 12 states had enacted such laws up to 1939, no state had adopted an inspection law in the last decade that remained in effect, although some dozen states had considered inspection bills.

Machine Tool Ceiling Set

The Office of Price Stabilization placed all sales of used machine tools and used machine tool extras under a new separate ceiling price regulation. In general, ceiling prices are established on the basis of manufacturer's January 25, 1951, list prices for the most comparable new machine tools and extras, subject to applicable mark-down percentages specified, depending on the age and condition of the used machine being priced.

(TURN TO PAGE 326, PLEASE)

POWER • PAYLOAD • PERFORMANCE



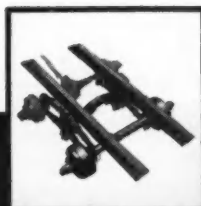
with GRICO 2 AXLE DRIVE

Now you can take your medium duty trucks and do a heavy duty job with them by installing the famous Grico 2 Axle Drive Unit. There's a unit for YOUR truck.

Check the advantages of the Grico over any other unit and you'll become convinced that for the job you have to do . . . you'll pick GRICO.

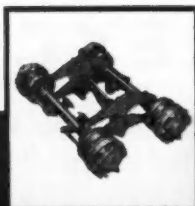
DESIGNED RIGHT . . . MADE RIGHT . . . PRICED RIGHT . . .

Look into the Grico plan now and see for yourself how this "master of the field" can lend new and faster profits to your operation.



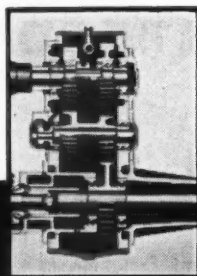
IF YOU NEED . . .

that dependable third axle . . . with a load capacity of ten tons, twelve tons or fifteen tons . . . Check the favorite Grico Superflex. Catalog material and specifications upon request.



IF YOU NEED . . .

that dual-axle unit for your trailers . . . with plenty of capacity . . . then look into the rugged Grico Dual Axle Unit. Catalog material and specifications upon request.



Here you see one of the **GREATEST** Gear Transfer Cases ever developed.

Designed to provide greater power to both driving rear axles and give greater gear selection for 8 to 10 forward speeds (with two reverse speeds).

GRICO TWO AXLE DRIVE COMPANY

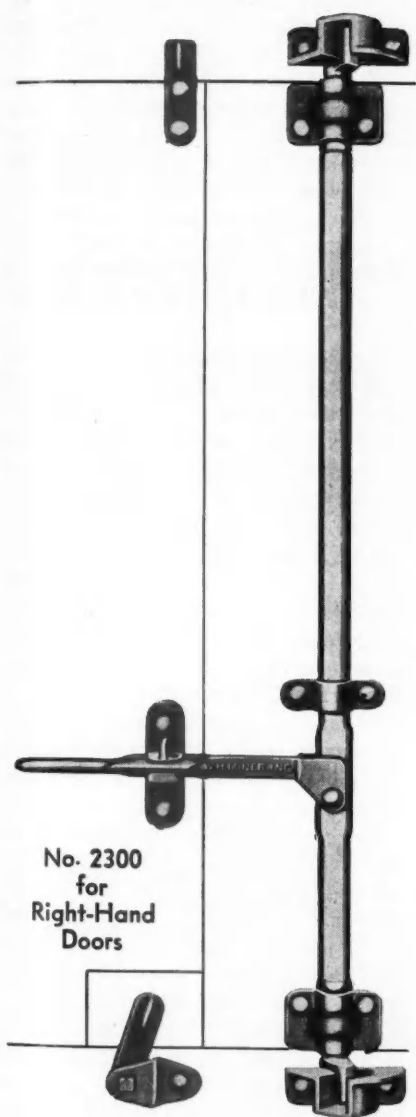
19842 WEST EIGHT MILE ROAD
DETROIT 19, MICHIGAN



"For your information, lunch hour is over!"

IN YOUR BODY SPECIFICATIONS . . .

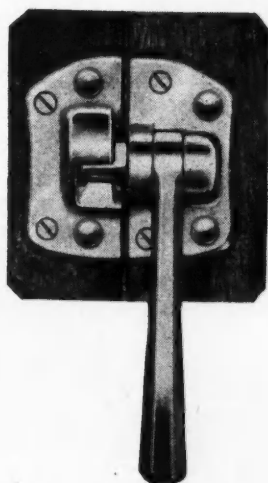
Include MINER DOOR FASTENERS AND HINGES



MINER
TUBULAR BAR TYPE
DOOR FASTENER
for
Truck and Trailer bodies

This new Miner Truck Door Fastener No. 2300 is applicable to all sizes of rear and side doors, either single or double, and particularly desirable for refrigerator bodies.

The left-hand design of this fastener is designated as No. 2350.



MINER
LATCH TYPE
DOOR FASTENER

This device serves as an efficient door opener and closer as well as a dependable door lock. Operates on the cam principle, providing great leverage, thereby making it possible to open and close insulated doors without jerking or slamming.

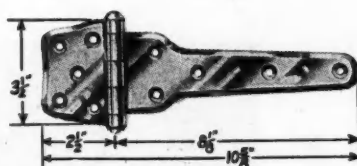
MINER DOOR HINGES

for TRUCK and TRAILER BODIES

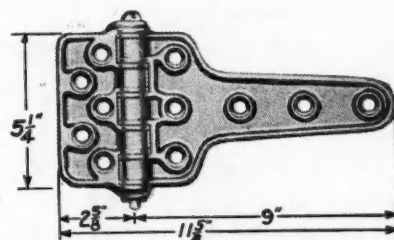
Miner Hinges combine attractiveness, strength and durability. They are exceptionally sturdy in construction, yet

so designed that all excess weight is eliminated.

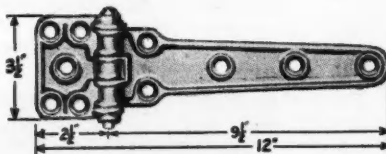
Made for flush-type doors.



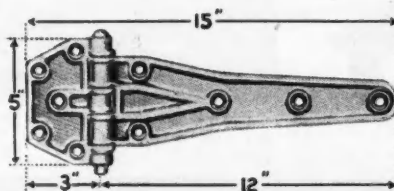
No. 1855. Especially desirable for small doors of ice cream bodies. Furnished in special bronze alloy, chrome plated, or in malleable iron, with special aluminum finish.



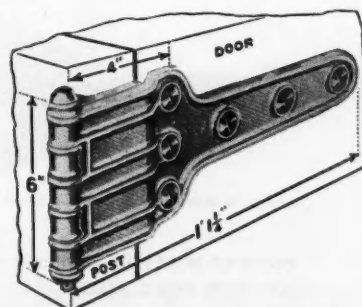
No. 1873. Recommended for large, heavy, insulated doors. Made of drop-forged steel, with special aluminum finish.



No. 1857. Recommended for medium size doors. Made of drop-forged steel, with special aluminum finish.



No. 1954. Recommended for large, heavy insulated doors. Made of malleable iron, with special aluminum finish.



No. 1953. Designed for use on rear doors. Permits doors to be swung to side of truck body. Made of malleable iron, with special aluminum finish.

CCJ Reports

Continued from Page 324

Roundup of Defense Law

Now that President Truman has signed the Defense Production Act, a review of its major provisions may be timely:

Termination: All provisions of the new Act expire June 30, 1952.

Priorities and allocations: No change affecting the trucking industry directly.

Requisitioning: No real property is to be acquired by requisition, "other than equipment and facilities, and buildings and other structures, to be demolished and used as scrap or secondhand materials."

Condemnation: In addition to other means of transfer, real property may be acquired through condemnation proceedings "in the interest of national defense." However, prior negotiation is required, except where undue delay would result; possession may not be ordered surrendered until after a declaration of taking has been

filed and deposit made into court, and 75 per cent of the deposit must be paid to the owner on application "except where the title is in dispute."

Government purchases: Subsidies can be used for domestically produced materials, except agricultural products, (a) preclude decreases in supply from highcost sources, or (b) offset temporary transportation cost increases. **Productive capacity:** In order to expand productive capacity, the President can install additional equipment, facilities, processes or improvement to government-owned plants and other industrial facilities and can install government-owned equipment in private plants. **Borrowing:** The ceiling on defense agency borrowing from the Treasury is raised from the former \$600 million to \$2.1 billion and the \$2.1 billion is established as a revolving fund.

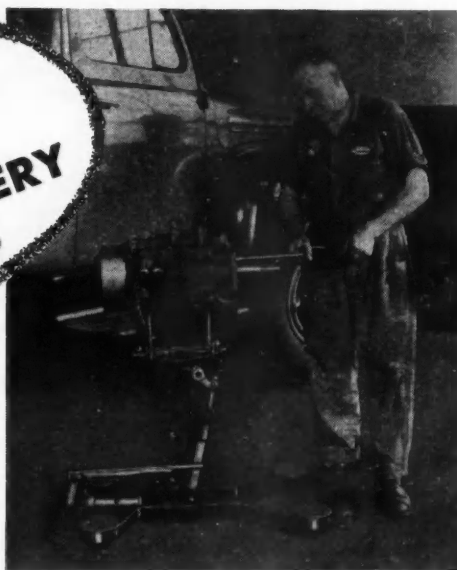
Price controls: Profits still may be used as a price control yardstick, with limitations. Regarding non-agricultural products—no ceiling price can be below the lower of (a) the price just before the date of the regulation's issuance or (b) the prevailing price between January 25 and February 24, 1951. Rollbacks of non-agricultural prices are permitted if the ceiling price either (a) is based on the highest price received for the material or service between January 1 and June 24, 1950, and reflects adjustments for subsequent increases or decreases in costs occurring prior to July 26, 1951, or (b) was established under regulations issued prior to the enactment of S. 1717. **Price relief:** This is contingent upon application by the seller. Individuals may apply for price relief based on cost increases prior to July 26, 1951. "Costs" include material, indirect and direct labor, factory, selling, advertising, office, "and all other production, distribution, transportation and administration costs . . ." The President is required to adjust ceiling

(TURN TO PAGE 328, PLEASE)



Step-Draulic Jacks . . . Fast—Safe. One man removal and replacement of all car and truck transmissions and differentials. Preferred in thousands of shops all over the world.

Step-Draulic Lo-Jacks for floor work. Step-Draulic Hi-Jacks for lifts or pits. All models lift 1000 lbs. . . position up to 500 lbs. transmissions.



The Step-Draulic Lo-Jack is also used as a solid, convenient work stand.



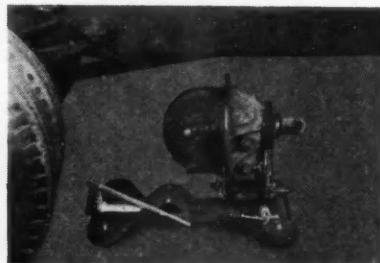
Step - Draulic Hi - Jack No. 3200 2-Stage, raises to 72", lowers to 32" (bench height).

Designed with the mechanic in mind.

WRITE OR WIRE FOR COMPLETE DATA
LIST UNITS YOU SERVICE



Hydraulic control, right or left handed, permits any mechanic to handle heavy truck transmissions—alone.



On heavy duty rear end jobs there is nothing that equals the powerful Step-Draulic jack.

J. O. STEPHENSON FDRY. and MFG. CO.

548 EAST FORT STREET • DETROIT 26, MICHIGAN



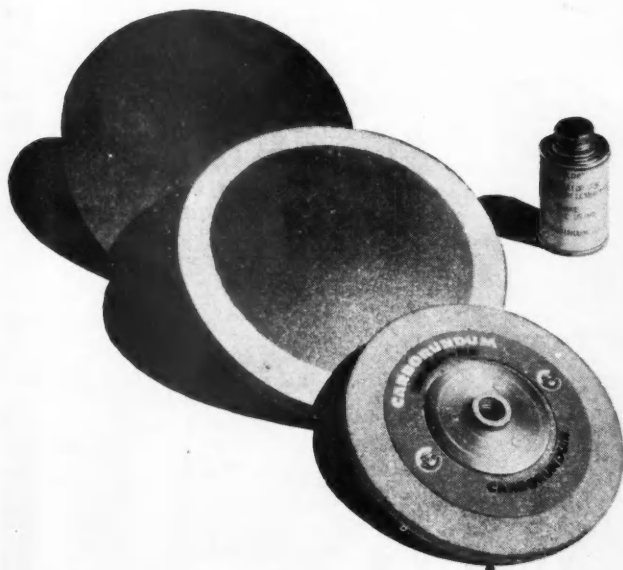
"No hurry, mister, the driver always waits for me."

Flexbac[®]

METHOD

Outstanding Results in Refinishing!

Shops everywhere are obtaining outstanding results by using the new FLEXBAC Method of body refinishing. More and more new users report worthwhile savings in both time and labor...improved job quality. Here are the products by CARBORUNDUM used in this efficient new FLEXBAC Method:



1 New cushion type resilient rubber FLEXBAC pad is the key product that enables you to sand as much as 85% of your body work *mechanically*. Sands contours and reverse curves... feathered edges beautifully. Used with preferred 2-Disc method for highest efficiency.



2 "Red-I-Cut" Waterproof Paper is recommended for use with your FLEXBAC pad and for hand sanding. The finest waterproof paper available with greater adhesion of abrasive to backing; superior resistance to pulping, tearing, peeling and cracking. No need to soak.



3 FLEXBAC Masking Tape goes on quickly and easily, with just the right amount of holding power. Extra-thin, yet sturdy; resists moisture and solvents; minimum curl and wrinkle in use. Other refinishing products by CARBORUNDUM: Cabinet Paper for dry hand sanding; "Handy-Sandy" Disk for high-speed sanders; "MX" Wheels for cut-off and general purpose grinding and Waterproof Cloth Belts for glass grinding and beveling.



WRITE FOR NEW FREE MANUAL

Easy-to-read manual has many shop hints helpful to new or experienced men. It's yours for the asking. See your CARBORUNDUM jobber, or write Dept. CC 90-40.

You can do a better job with products by

CARBORUNDUM

TRADE MARK

"Carborundum", "Red-I-Cut", "Flexbac", "MX" and "Handy-Sandy" are trademarks of The Carborundum Company, Niagara Falls, N. Y.

CCJ Reports

Continued from Page 326

prices upon application for adjustment to accommodate cost increases except when he determines the increases to be "unreasonable and excessive." Customary percentage margins—Retailers and wholesalers must be permitted their customary percentage margins of costs of materials between May 24 and June 24, 1950, except for items in short supply "as evidenced

by specific government action to encourage (the material's) production."

Penalties—The President is permitted to determine disallowance for tax purposes of overpayments involved in price and wage regulation violations and fines imposed for violations. The former \$10,000 limit on fines is removed.

Wage controls: No change affecting the trucking industry.

Credit controls: Also no change affecting the trucking industry.

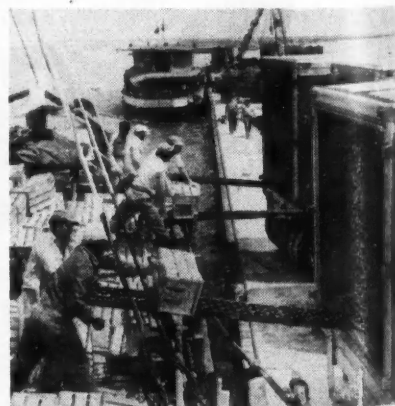
Small business: An independent Small Defense Plants Administration

(SDPA) is established to function through June 30, 1952, unless extended. The Act considers a "small-business concern" to be one which is "independently owned and operated and is not dominant in its field of operation." The new agency is allotted a \$50 million revolving fund. It is given authority to: 1. Recommend to the Reconstruction Finance Corporation loans or advances, on terms and conditions fixed by the RFC, to enable small-business concerns to finance plant construction, conversion, or expansion. 2. Enter into contracts with the U. S. Government or officer thereof having procurement powers obligating the SDPA to furnish articles, equipment, supplies or materials to the government. 3. Arrange for the performance of such contracts by letting subcontracts to small-business concerns. 4. Provide technical and managerial aids to small-business concerns. The SDPA can certify to a U. S. government procurement officer the SDPA's own competence to perform any specific government procurement contract and the officer can let the contract through negotiation with SDPA. The Act states that small business is to get its fair share of contracts and allocated materials.

Trucks Cooperate In Shipping Field-Packed Fruit

Seven truck operators participated in a history-making event in the fresh fruit and vegetable industry by helping to distribute nearly 3000 crates of Mexican pineapples that had been packed in the field and carried to Port Isabel, Texas, by boat.

The trucks were loaded at dockside with the crated fruit and, four hours (TURN TO PAGE 330, PLEASE)



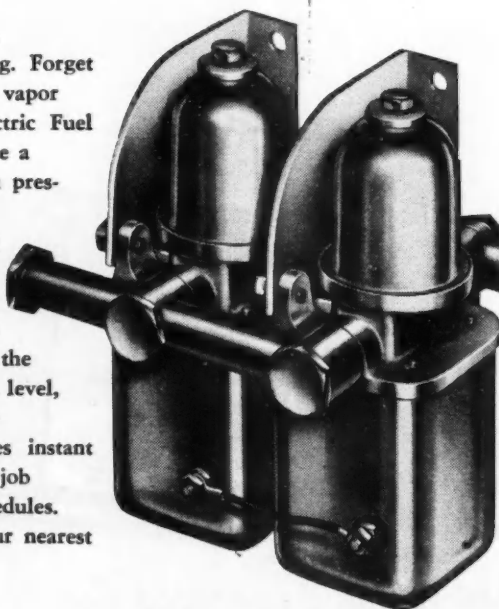
Trucks were backed to the gunwales of the boat to receive the crates of pineapples, just 50 hours after they left Alvarado, Mexico

AUTOPULSE

electric fuel pumps



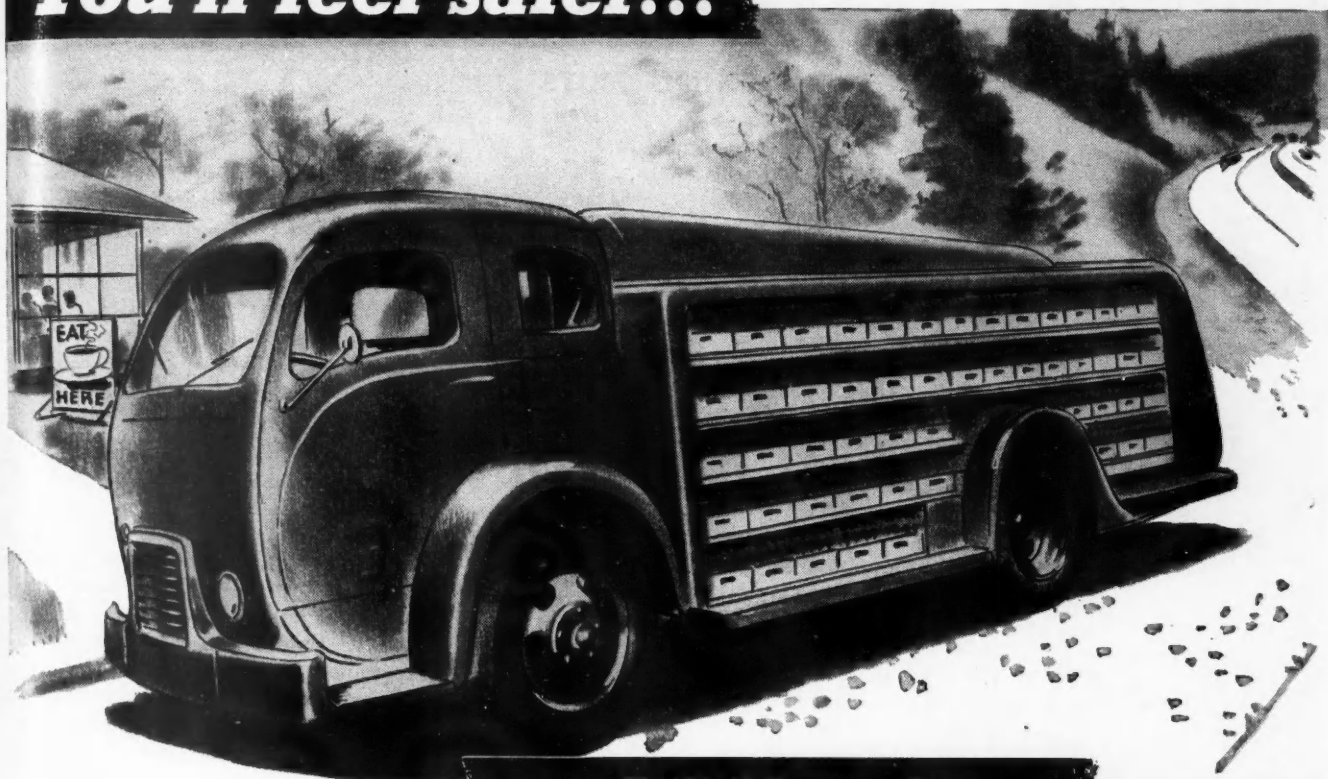
To keep costs down and profits up, your equipment must be kept rolling. Forget one cause of delay, stalling due to vapor lock, by installing Autopulse Electric Fuel Pumps. Autopulse gives the engine a constant supply of fuel at an even pressure. Autopulse is a *pusher pump*—that pushes the fuel, does not draw it to the engine. There is no vapor lock, and "percolation" of the lighter ends of the motor fuel is reduced to the minimum. At high altitude or sea level, in the hottest weather or in the dead of winter, Autopulse insures instant starting, keeps your vehicles on the job — helps you meet fast moving schedules. Write for folder and name of your nearest Autopulse Dealer.



AUTOPULSE
the heart of your motor

corporation
218 e. dowland street
ludington, michigan, u.s.a

You'll feel safer...



... and BE safer...

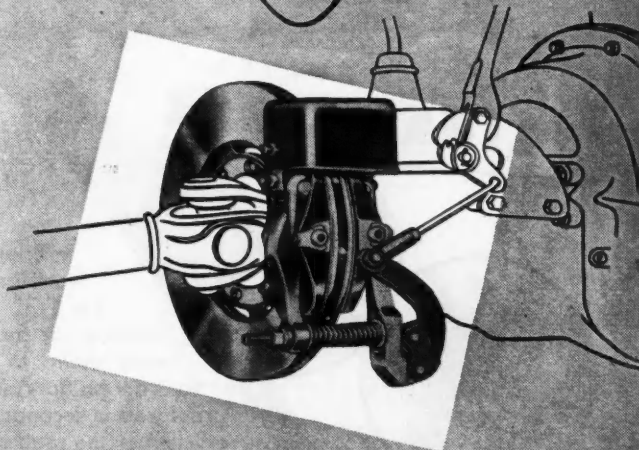
TRU-STOP is a ventilated, disc-type brake which attaches to the drive shaft of all trucks and buses. Hand-operated lever mechanism exerts equal and opposite pressure using entire surfaces of both shoes. Simplicity of TRU-STOP design permits adjustments, even relining, without dropping drive shaft.

TRU-STOP Brakes serve in an emergency, as an auxiliary brake on long downgrades, and as a positive parking brake. The smooth gripping action, the "feel" of deliberate deceleration when the brake is applied in a moment of emergency, makes the driver feel safer... makes the equipment safer. TRU-STOP Brakes are an investment in safety.

You can have TRU-STOP Brakes installed at the factory on your new bus or truck... or you or your local dealer can install them on your present equipment. TRU-STOP Brakes prevent accidents, eliminate road delays, reduce servicing costs. Is it worth the gamble **NOT** to install TRU-STOP Brakes?

See your dealer today or write for literature

with
TRU-STOP
Emergency
BRAKES

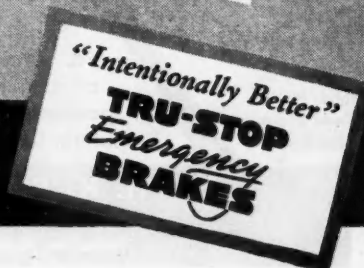


ACCO

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2475 Porter Street, Los Angeles 21 • Bridgeport, Conn.

**AUTOMOTIVE AND AIRCRAFT DIVISION
AMERICAN CHAIN & CABLE**

In Business for Your Safety





FLEXLOC

SELF-LOCKING NUTS

WE PRACTICE WHAT WE PREACH

Because we believe in our own gospel for eliminating vibration-loosened fasteners, we use FLEXLOCs to provide positive locking on the caster assemblies of our Hallowell Platform Trucks.

Perhaps you have a vibration problem. If so, send for samples and literature.

-SPS **STANDARD PRESSED STEEL CO.**
JENKINTOWN 5, PENNSYLVANIA

BANISH WINTER CHAIN WOES! **HEAVY-DUTY** **CHAIN REPAIR TOOL** *for all sizes — all makes*

HKP **PORTER**
LINKMASTER

**ESSENTIAL
EQUIPMENT for
FLEETS, GARAGES, TIRE
SHOPS, SERVICE STATIONS**

Fix any tire chain "standing up" with the fast, efficient LINKMASTER . . . from large heavy truck chains (to 1 3/32" diam. links) down to smallest car chains. No more lugging heavy chains to work-bench. Chain is laid out on floor; links are removed and replaced in seconds. Fully portable . . . as efficient on the road as in the shop.

For light truck chains (to 3/16") and all passenger car chains, LINKSEM is a rugged, lightweight tool of amazing power but low cost! Also LINKFIX for passenger car chains and a complete line of Porter Chain Cutters for hard chain.

See your
jobber NOW
and end winter
chain headaches!

H. K. PORTER, INC. Somerville 43, Mass.

Porter Cutters

Porter Pruners

PORTER-FERGUSON Autobody and Fender Repair Tools

CCJ Reports

Continued from Page 328

after the boat had tied up, were on their way to distant points, including Los Angeles.

The event was significant because it marked the first time that crated pineapples had ever been shipped by boat from Mexico and the first time that field-packed pineapples were imported to this country from Mexico. Usually, the fruit is sent by truck or rail in bulk to border points and crated there.

Cooperation Noted

EVERYONE cooperated in clearing the shipment. The boat, "Isla de Tris," reached Port Isabel 50 hours after leaving Alvarado, Mexico, was released by U.S. Customs in an hour and was fully unloaded by 6 P.M., when the last of the seven trucks pulled away. Union leaders cooperated by permitting union crews to roll crates of pineapples directly from the "Isla de Tris" into the waiting trucks by means of roller conveyors and drivers and crews to stack crates in the trucks.

The fruit was sound, firm, and of good healthy green color when it reached Port Isabel and later reports were that it had trucked well to distant markets.

Shippers and handlers alike commented on the ease with which the crates could be handled. They were wirebound crates of relatively light weight material.

(TURN TO PAGE 366, PLEASE)

Sales Talk

On his way to a convention, the widely known brake lining manufacturer stopped off in a big eastern city for the night. After partaking of a delicious meal in the hotel dining room, he stopped for a chat with the manager and inquired what there was in the way of entertainment in town at the time.

"Well," said the hotel manager, "do you like burlesque shows?"

"Yes, I like a good burlesque show," replied the brake lining titan.

"Then," continued the manager, "we got just the thing for you. Jada Jing, the most popular burlesque queen in the country, is appearing at the local burlesque house this week.

"Her act alone is worth twice the price of admission. She does one of those dances of the seven veils. She has beautiful hair, a lovely face, a marvelous shape; oh boy, wait till you get a load of her. The music plays real slow and she comes out on the stage and dances around and discards a veil and the music plays faster and she discards another veil.

"Then the music keeps getting faster and she drops more veils until—say, wait until I get my hat and coat. I better go along with you."



***AN EYEFUL* OF MONEY-MAKING**

Not only dump truck operators, but thousands of "sidewalk operators" can tell the difference between a Galion equipped dump truck and a conventional job.

The smooth steady lifting ACTION of Galion's fulcrumatic design plus its perfect operating BALANCE and top quality CONSTRUCTION is readily apparent through distinctive performance . . . just as is the performance of a "Champion" in any other line.

And that is why so many experienced dump truck operators from coast to coast depend on the Galion ABC combination to make money for them.



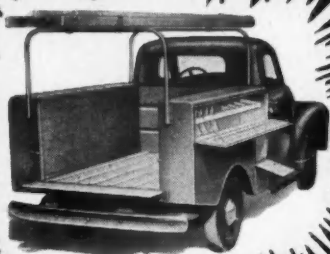
MAKES A WHALE OF A DIFFERENCE THE "WEIGH" IT LIFTS

Sales and Service
FROM
Coast to Coast

GALION
ALLSTEEL BODY COMPANY
GALION, OHIO

A exclusive hoist
Action
B perfect operating
Balance
C proved quality
Construction

CRAFTSMAN



SERVICE BODIES



and SIDE BOXES
...SAVE YOU MONEY!

Whether you buy Craftsman bodies built-up (ready to mount on chassis) or partially knocked-down (to save on freight costs) you get all-steel, precision welded bodies built to give you l-o-n-g service!

YET YOU
PAY LESS

MAIL COUPON NOW
for complete details

NAME _____

ADDRESS _____

CITY _____ STATE _____

I am interested in a service body for the following chassis:

☐ 1/2 TON ☐ 3/4 TON ☐ 1 TON

I am interested in Side Boxes to convert my "Pick Up" to a Service Body. ☐

Stahl METAL PRODUCTS Inc.
3490 W. 140 St., Cleveland 11, Ohio

CCJ Reports

Continued from Page 330

Equipment Committee Appointed

The National Production Authority has announced the membership list of the Automotive Maintenance Equipment Industry Advisory Committee as follows: W. M. Banzer, Sr., Amco Tools Inc., North Chicago, Ill.; H. B. Barrett, Barrett Equipment Co., St. Louis, Mo.; Victor B. Day, Bear Mfg. Co., Rock Island, Ill.; Glenn H. Tresler, Black & Decker Mfg. Co., Towson, Md.; Hal Gorhrig, Blackhawk Mfg. Co., Milwaukee, Wis.; William Clayton, Clayton Mfg. Co., El Monte, Calif.; J. D. Adair, Kent-Moore Organizations, Inc., Detroit, Mich.; Kent Fullerton, King Electric Co., Cleveland, Ohio; A. B. Harding, Lempeco Products Inc., Bedford, Ohio; C. V. Lisle, Lisle Corp., Clarinda, Iowa; J. A. Murnana, Norea Mfg. Co., Waterbury, Conn.; Hugh Allen, Rotary Lift Co., Memphis, Tenn.; C. R. Crowder, Van Norman Co., Springfield, Mass., and Charles F. Hodgson, Weaver Mfg. Co., Springfield, Ill.

Barnett Mobilizes PM Unit

Barnett Detroit Cartage Co. says it is effecting considerable savings and

much better customer relations through use of a mobile maintenance truck to service units leased by customers and garaged on customer property.

A parcel delivery type unit is fitted out with complete equipment for both minor and major preventive maintenance operations. Equipment includes two separate gasoline power units, one of which provides power for lubrication, high pressure washing, and tire inflating operations, and the other one for lights and other electrically driven equipment such as drills. A full complement of small tools, PM gages, and so forth is carried as regular equipment. Regular PM service is given every 1600 miles and requires from one to 1 1/2 hours. At 6000-mile intervals major PM operations are carried out requiring 4 hours plus any over-haul work that may be necessary. For example, the unit is equipped for brake relining jobs.

Savings for both Barnett and customers are possible because there is no mileage charge for driving trucks from the customers place to the home garage and back again, and the saving in down time for the truck also is reduced. The mobile shop is used to service twelve of the company's large accounts. The Barnett firm has more than 350 trucks under lease in the Detroit area.

(TURN TO PAGE 368, PLEASE)

SOLVENT EMULSION CLEANER

FO-106

Meets specification C-147-1 (Navy) concentrate.

Dilute with kerosene, varsol or similar solvent from 4 to 9 parts before use.

Relatively odorless. Easy on hands.

Contains no cresylic acid or free caustics.

May be diluted with water up to 20 parts for light service cleaning or painted surfaces.

Order trial 30 gal. drum @ \$1.54 per gal.

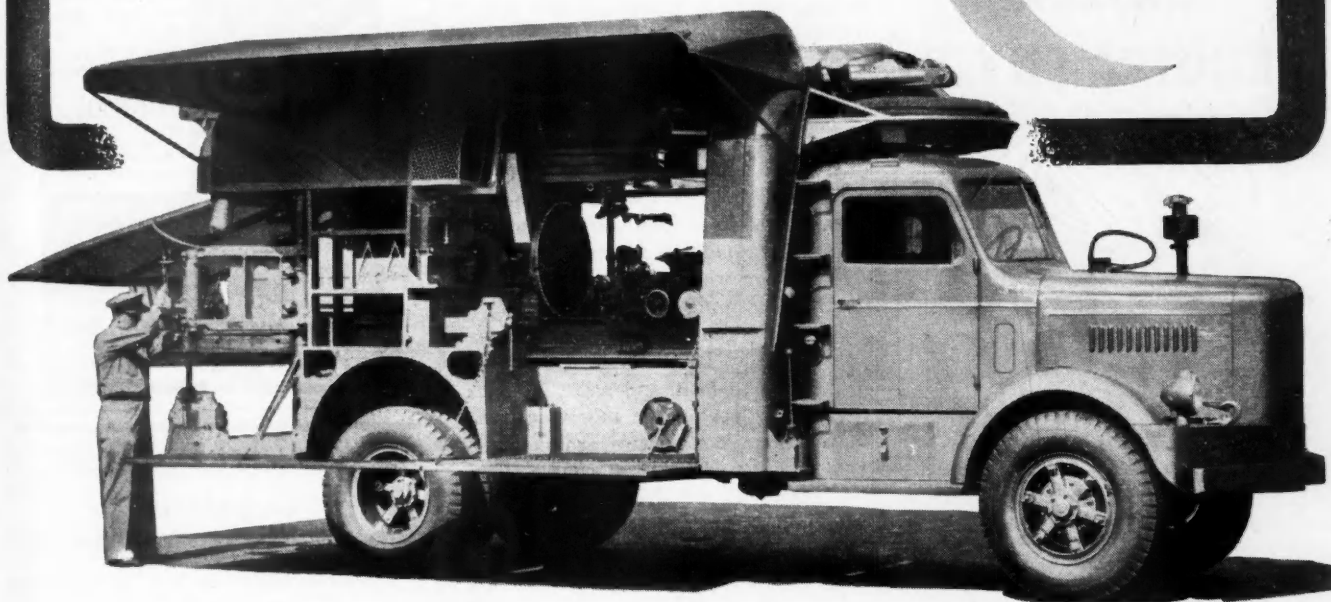
Send for Industrial Maintenance Bulletin B2
Aviation-Industrial Div. Dept. H1

FINE ORGANICS Inc.

211 East 19th Street, New York 3, N. Y.



taking tools to Turkey



mobile machine shop is powered by **WAUKESHA**

● Mobile shop users—military or commercial—need fast rolling power. The power that can take the tools to the job *quick*—and power that can finish the job, too, in an emergency. That calls for Waukesha power. And that's why there's a 195-GKA Waukesha High-Duty Six powering this latest type shop which is now on active duty in Turkey. It's a *Couse* type M shop, mounted on an *FWD* model HA truck chassis. Fully assembled it weighs 23,000 lb.

The Waukesha 195-GKA Six has every modern performance-proved feature—overhead valves, counterbalanced crankshaft with 2 $\frac{5}{8}$ -in. main bearings, vibration dampner, aluminum pistons, full pressure lubrication, and many others—all detailed in Bulletin 1513.



195-GKA High-Duty WAUKESHA Engine—
six cylinder, 4 $\frac{1}{8}$ -in. bore x 4-in. stroke,
320 cu. in. displacement.

WAUKESHA MOTOR COMPANY
NEW YORK TULSA

• **WAUKESHA, WISCONSIN**
LOS ANGELES

150

HOLLAND

Engineered

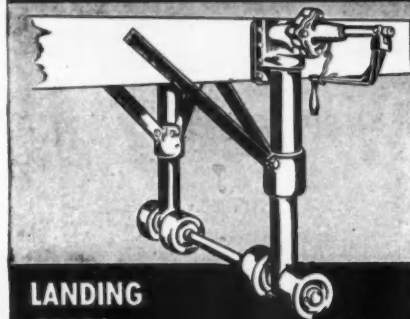
TRUCK AND TRAILER EQUIPMENT



FIFTH WHEELS

ALL TYPES

INCLUDING—THE AMAZING NEW
APGAR SAFETY FIFTH WHEEL
WITH THE SIXTH SENSE
NO TIPOVER — NO JACKKNIFE



LANDING GEARS

Vertical & Horizontal



TOWING RINGS — TOWING HOOKS
KING PINS AND ADAPTORS
TRAILER COUPLERS — PINTLE HOOKS

LEADERSHIP ACHIEVED
THROUGH FORTY YEARS
OF GIVING CUSTOMERS
A BETTER RUN
FOR THEIR MONEY

HOLLAND HITCH

COMPANY
HOLLAND • MICHIGAN
DISTRIBUTORS IN PRINCIPAL CITIES

CCJ Reports

Continued from Page 366

Test Truck Introduced

In connection with mountain tests being made by Thermoid Co., Trenton, N. J., a specially engineered test truck was recently commissioned. The truck is equipped with (1) a fifth wheel, which is connected to devices for measuring stopping distances and actual miles per hour, (2) head test weights totalling 13,900 lbs. on the rear wheels and 3900 lbs. on front wheels, (3) a line pressure gauge which measures in psi, the pressure in the hydraulic lines, (4) Wagner Tachograph to record number of stops and how long it takes to stop from various speeds, (5) custom-made stop counter, (6) Decelerometer, which records ft./second squared, stopping distance, and (7) a pedal travel gauge for recording variations in the length of brake pedal stroke due to heat and wear.

The first test on the new truck will include four consecutive cross-country trips over the 44-mile test course. Then the truck will be driven down grade (2½ miles) at a maximum speed of 22 m.p.h. snubbed to 17 m.p.h. from 28 to 34 times during the descent, and ending with a skid stop at the bottom of the course.

Under such extremes, brake linings of all kinds will be tested for durability and resistance to heat and wear.

Governors Conference Skips Controversial Problems

Despite some advanced misgivings to the contrary, the only way in which the truck industry entered proceedings of the four-day annual conference of governors at Gatlinburg, Tenn., early last month, was in the passing of the following resolution.

"Although substantial progress has been made during the recent legislative sessions to strengthen and improve state laws governing highway safety, the need for a concerted attack on traffic accidents remains serious. Equally serious is the problem of protecting our highway system from flagrant violations of size and weight regulations.

"The Governors' Conference urges that all states continue to review and study their laws in the fields of highway safety and motor truck regulation, and to move toward more complete uniformity of their laws. Special consideration should be given to the enactment of the uniform vehicle code. . . ."

(TURN TO PAGE 370, PLEASE)

Time Savers...
KEN TIRE CHANGING **TOOLS**
...they're "Job Designed"

T-70 SET
T-22 T-5 T-21
T-28
T-27
T-18
T-23
T-20
T-19A
T-48
T-25 New Ford Tire Tool
T-50
T-52
T-10
T-26

KEN-TOOLS are hand forged from chrome nickel alloy steel...heat treated for extra long life...Best By Actual Test!

KEN-TOOL...
LARGEST EXCLUSIVE
MAKERS OF
TIRE AND WHEEL
CHANGING TOOLS

See Your Local Jobber for Our Complete Line
The KEN-TOOL Mfg. Co.
Akron 5, Ohio

DETROIT MECHANICAL HOIST Corporation

3502-12 W. Fort St., Detroit 16, Mich.

Manufacturers of

DUBÉ Mechanical Hoists and
Dump Bodies for Motor Trucks

Write for FREE Descriptive
Literature

An Engineered
WATER PUMP
for every need
**SEVENTY
NINE** to choose from
Wohler Corporation
Lansing 5, Michigan

HEAVY DUTY MOTOR TRUCKS

GASOLINE ELECTRIC
GENERATING SETS

DUPLEX

TRUCK COMPANY
LANSING, MICHIGAN

"I'm still in business, thanks to NYLON cord tires"

"My two trucks haul coal, limestone, sandstone and other heavy loads," says R. M. Harding of Crossville, Tennessee. "I'm in and out of quarries and mines, driving on all kinds of rough temporary roads. Bruise blowouts cost me so much in replacements and delays that I could hardly stay in business.

"Since converting to nylon cord tires, however, I've gone thousands of miles without a blowout. They've made the difference between profit and loss to me."



NYLON CORDS PROTECT AGAINST ALL THESE CAUSES OF TIRE FAILURE

Heat—Nylon cords can withstand hotter temperatures than a tire will ever encounter on the highway in normal operations.

Moisture—Nylon's resistance to deterioration by water will save a tire where other tires would fail.

Flex Fatigue—Nylon's resilient strength makes tire cord stand up under the complex compression-tension flexing that takes place every time a tire turns—reduces flex-fatigue failures.

Bruise Damage—Nylon's toughness virtually ends cord ruptures caused by tires hitting curbs and holes at high speeds.



Try a set of nylon cord tires and compare their performance with other tires in every way. Run them on your toughest haul, for your heaviest loads. You'll find that nylon's resistance to heat, moisture, flex fatigue and bruise damage gives you important extras. Nylon cord tires reduce carcass failures, cut down road delays, and give you a higher percentage of successful recaps—which all add up to lower cost per mile. See your dealer, equip one rig, prove it to yourself.

Free Booklet on nylon tires—write for your copy. Nylon Division, Dept. C-6, E. I. du Pont de Nemours & Co. (Inc.), Wilmington 98, Delaware.



REG. U.S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING... THROUGH CHEMISTRY

NOTE: Du Pont makes nylon fibers, does not produce tires. A number of rubber companies have nylon cord tires available.



SADDLE TANK
CYLINDER TANK

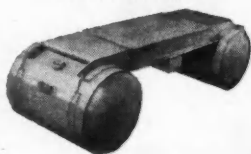


SNYDER SAFETY TANKS

All three Snyder Safety Tanks pictured here embody all the safety features that assure the utmost safety for the fleet operator, driver and cargo. Snyder "Balanced Construction" design, insures lighter weight, streamlined yet stronger tanks...

Tanks built to stand heavy loads, high speeds and the shock of the road. The Snyder safety diesel tank has all the safety and construction features of the gasoline tank and is equipped with larger outlets to accommodate the heavier fuel lines.

TOOL BOX UNIT



Underwriters Laboratories, Inc.
INSPECTED

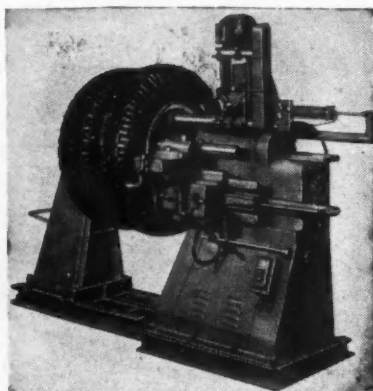
For catalog and address of your nearest dealer, write:

SNYDER TANK CORPORATION

P. O. Box 14, Buffalo 5, New York

P. O. Box 2390, Birmingham 1, Ala.

Turn, Grind Biggest Duals



1. Fast, smooth, independent hydraulic feed on both grinder and tool compound.
2. Outboard, live center support eliminates sag . . . spindle mounted in Timken bearings.
3. Turns and grinds a full 16" in depth. Capacity to 40" diameter drum and dual wheels to 1600 lbs.
4. Outboard swings away when wheels are being mounted.

Write for information on Model SDH Hydraulic Brake Drum Lathes, Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio

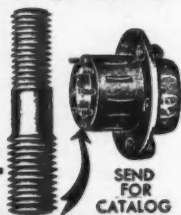
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CCJ Reports

Continued from Page 368

The outlook for more steel for highways was given consideration in another resolution to the effect the executive committee of the conference was asked that "consistent with the requirements of the national defense, appropriate action be taken looking toward the furnishing of such materials to the several states as quickly as practicable."

Rubber Use Increases

New rubber consumption in the month of September increased 2.29 per cent to 106,913 long tons from the 104,524 long tons consumed in August, according to a monthly report of the Rubber Manufacturers Assn., Inc.

Consumption of natural rubber during the month was up 1.57 per cent to 37,362 long tons from 36,784 long tons in August. Use of synthetic rubber amounted to 69,551 long tons, an increase of 2.67 per cent from the 67,740 long tons used during the previous month.

Sales Division Opened

Reorganization and expansion of truck, tractor, and industrial sales departments at the General Tire and Rubber Co. has been announced. There will be a new Commercial Sales Division, to be headed by Karl A. Dalsky, former manager of truck tire sales.

END

Please Resume Reading Page 31

Classified Advertisements

FLEET SUPERINTENDENT now in complete charge fleet of 105 trucks and 18 cars desires change. Now supervises maintenance, purchasing, accident reports, legal matters, labor, sub-contracting of repairs, redesigning of units or parts and cost recording. Experience covers 25 years. Minimum salary \$6500. Address: Box 29, Commercial Car Journal, Chestnut & 56th Sts., Philadelphia 39, Pa.

Salesman calling on Truck Fleet Operators to represent established manufacturer of friction cord Truck Flaps. Box 28, Commercial Car Journal.

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